

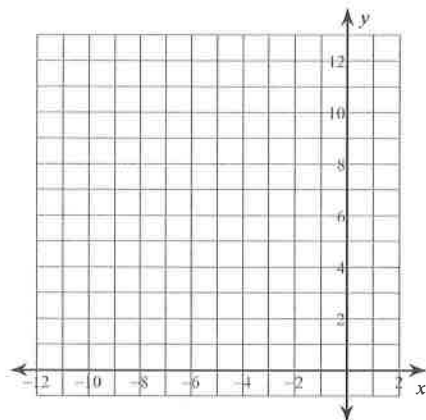
Graphing Quadratic Functions

Target 4-1

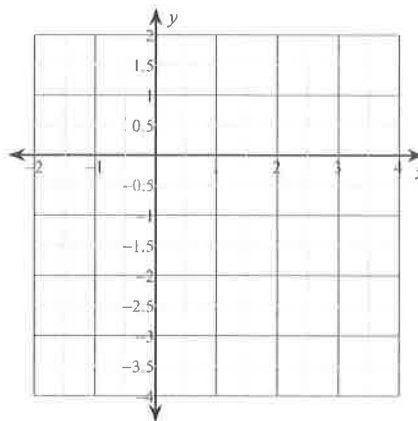
5 Sketch the graph of each function.

① Note y-int ② AOS ③ vertex ④ table

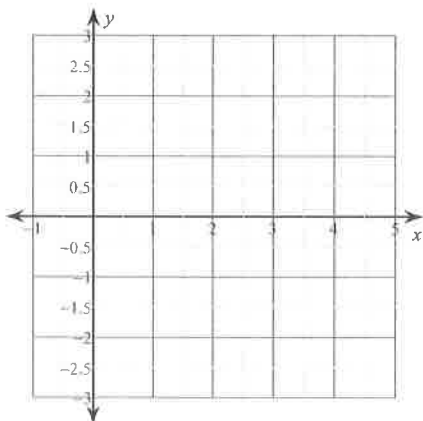
1) $y = 3x^2$



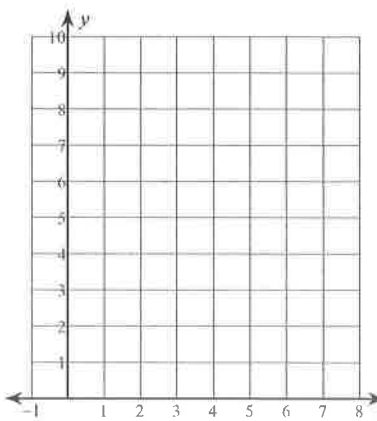
2) $y = -\frac{1}{2}x^2$



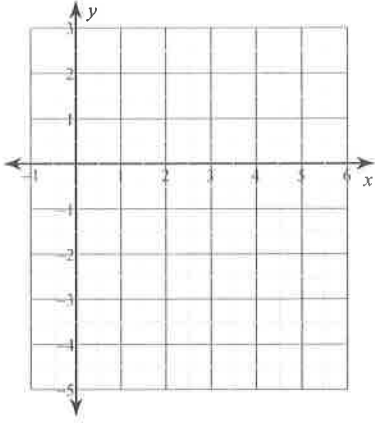
3) $y = -x^2 + 2x + 1$



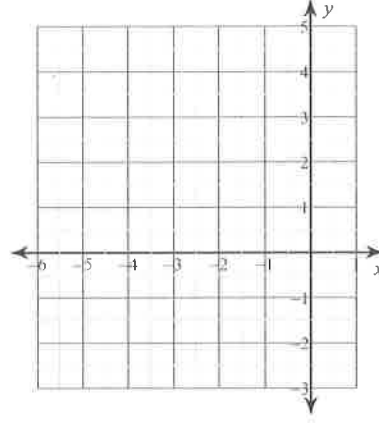
4) $y = 2x^2 - 16x + 33$



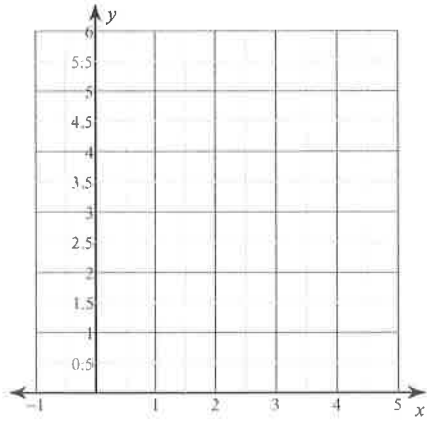
5) $y = x^2 - 8x + 13$



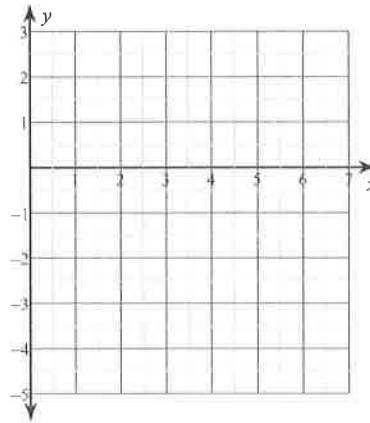
6) $y = -x^2 - 8x - 13$



7) $y = (x - 3)^2 + 1$



8) $y = \frac{1}{2}(x - 4)^2 - 2$



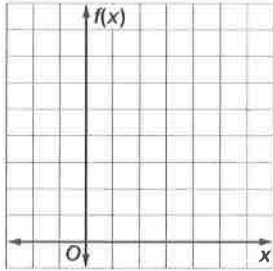
Target

4-2 Skills Practice

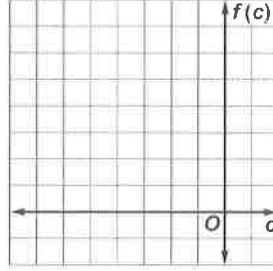
Solving Quadratic Equations by Graphing

Solve each equation by graphing. State the solutions! $x =$ $x =$

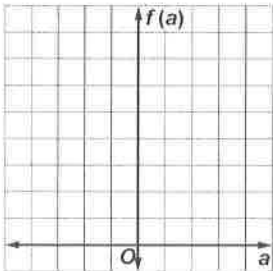
1. $x^2 - 2x + 3 = 0$



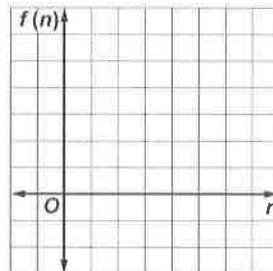
2. $c^2 + 6c + 8 = 0$



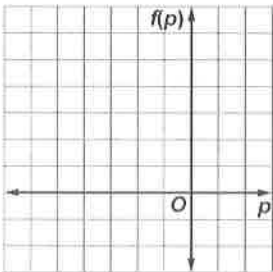
3. $-a^2 + 2a = -8$



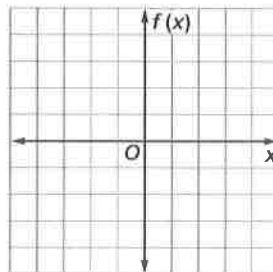
4. $n^2 - 7n = -10$



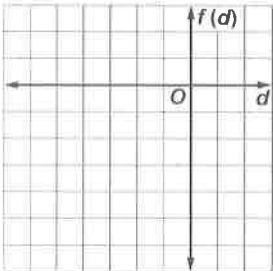
5. $p^2 + 3p = 0$



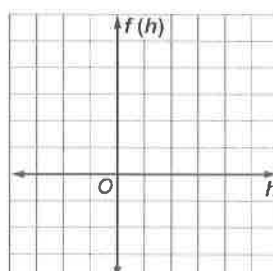
6. $x^2 + 3x - 4 = 0$



7. $x^2 - 2x = 8$



8. $h^2 + 1 = 4h$

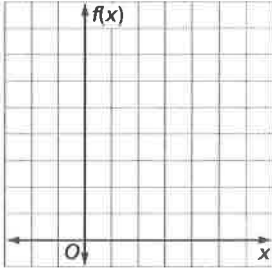


4-2 Skills Practice

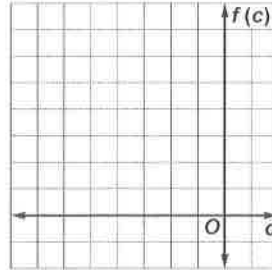
Solving Quadratic Equations by Graphing

Solve each equation by graphing.

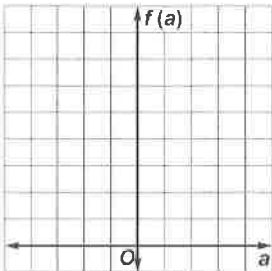
1. $x^2 - 2x + 3 = 0$



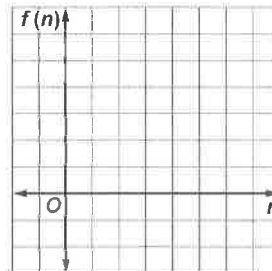
2. $c^2 + 6c + 8 = 0$



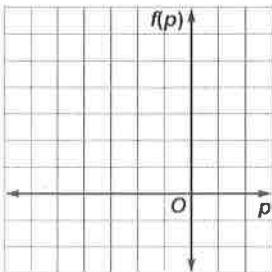
3. $-a^2 + 2a = -8$



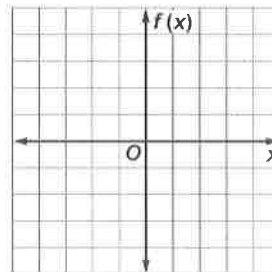
4. $n^2 - 7n = -10$



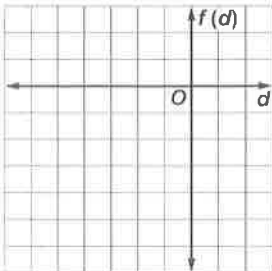
5. $p^2 + 3p = 0$



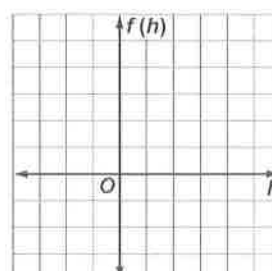
6. $x^2 + 3x - 4 = 0$



7. $x^2 - 2x = 8$



8. $h^2 + 4 = 5h$



Target
4-3

Name _____

Operations with Complex Numbers

Date _____ Period _____

Simplify.

no calc
on test!

1) $i + 6i$

2) $3 + 4 + 6i$

3) $3i + i$

4) $-8i - 7i$

5) $-1 - 8i - 4 - i$

6) $7 + i + 4 + 4$

7) $-3 + 6i - (-5 - 3i) - 8i$

8) $3 + 3i + 8 - 2i - 7$

9) $4i(-2 - 8i)$

10) $5i \cdot -i$

11) $5i \cdot i \cdot -2i$

12) $-4i \cdot 5i$

13) $(-2 - i)(4 + i)$

14) $(7 - 6i)(-8 + 3i)$

15) $7i \cdot 3i(-8 - 6i)$

16) $(4 - 5i)(4 + i)$

17) $(2 - 4i)(-6 + 4i)$

18) $(-3 + 2i)(-6 - 8i)$

19) $(8 - 6i)(-4 - 4i)$

20) $(1 - 7i)^2$

21) $6(-7 + 6i)(-4 + 2i)$

22) $(-2 - 2i)(-4 - 3i)(7 + 8i)$

23) $5i + 7i \cdot i$

24) $(6i)^3$

25) $6i \cdot -4i + 8$

26) $-6(4 - 6i)$

27) $(8 - 3i)^2$

28) $3 + 7i - 3i - 4$

29) $-3i \cdot 6i - 3(-7 + 6i)$

30) $-6i(8 - 6i)(-8 - 8i)$

Critical thinking questions:

31) How are the following problems different?

Simplify: $(2 + x)(3 - 2x)$

Simplify: $(2 + i)(3 - 2i)$

32) How are the following problems different?

Simplify: $2 + x - (3 - 2x)$

Simplify: $2 + i - (3 - 2i)$