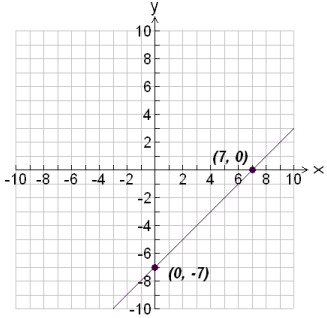
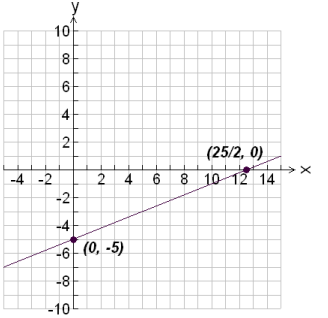


Chapter 11 Review

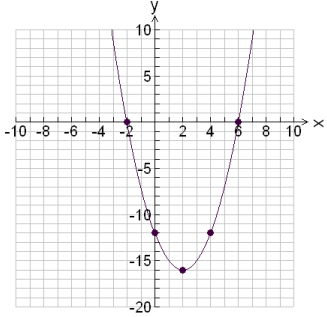
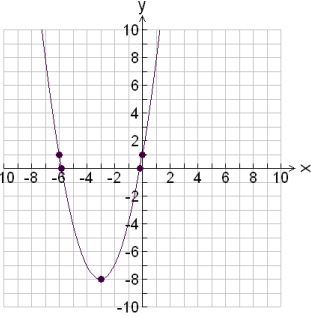
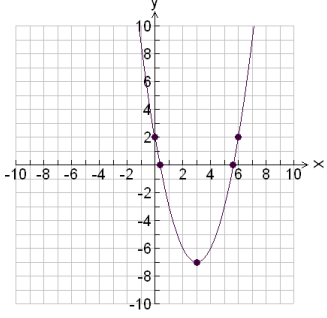
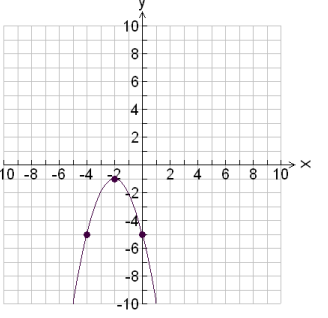
1. Yes 2. No 3. Yes 4. No 5. 58 6. $21b - 67$ 7. 0 8. $4n^2 + 40n + 50$

9. Domain: $(-\infty, \infty)$, Range: $[-7, \infty)$ 10. Domain: $(-\infty, \infty)$, Range: $(-\infty, 2]$

11. -3 12. 8 13. 9 14. -4, 2

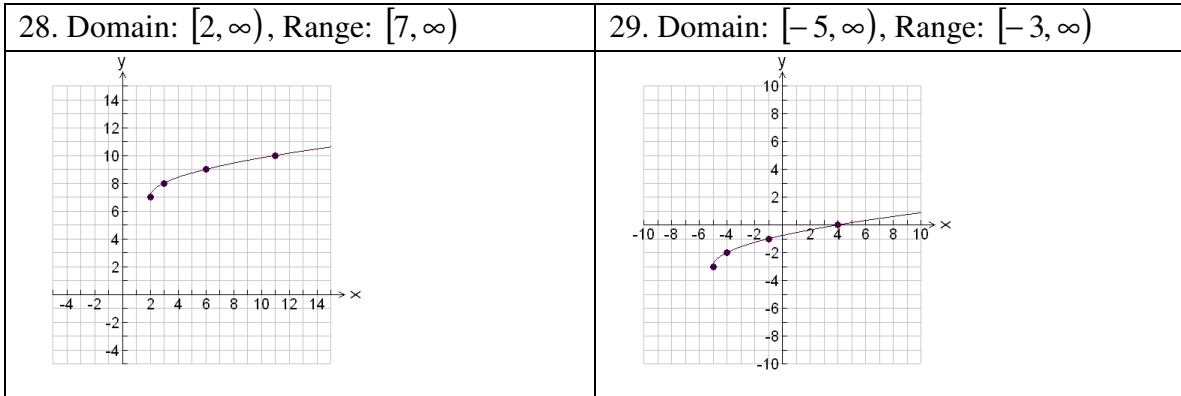
<p>15.</p> 	<p>16.</p> 
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17. (a) $C(x) = 0.10x + 100$ (b) $R(x) = 1.50x$ (c) $P(x) = 1.40x - 100$ (d) \$460

<p>18. Vertex: $(2, -16)$, y-int: $(0, -12)$ x-int: $(-2, 0)$, $(6, 0)$</p>	<p>19. Vertex: $(-3, -8)$, y-int: $(0, 1)$ x-int: $(-3 \pm 2\sqrt{2}, 0)$</p>
	
<p>20. Vertex: $(3, -7)$, y-int: $(0, 2)$ x-int: $(3 \pm \sqrt{7}, 0)$</p>	<p>21. Vertex: $(-2, -1)$, y-int: $(0, -5)$ x-int: None</p>
	

22. Minimum, 24 23. Maximum, -6 24. 526 ft 25. 36 ft by 36 ft, 1296 sq ft

26. $2x + h$ 27. $2x + h - 14$



30. $f(x) = \sqrt{x-1} + 6$ 31. -36 32. 312 33. 2166 34. -3 35. $x + 6$ 36. $4x + 4$

37. $x^2 - 5x - 36$ 38. $\frac{x+2}{x-7}$ 39. 15 40. 35 41. $(f \circ g)(x) = 18x + 103$,

$(g \circ f)(x) = 18x - 31$ 42. $(f \circ g)(x) = x^2 + 7x - 64$, $(g \circ f)(x) = x^2 - 9x - 48$

43. No 44. Yes 45. $f^{-1}(x) = \frac{x+15}{2}$ 46. $f^{-1}(x) = \frac{-x+27}{8}$ 47. $f^{-1}(x) = \frac{2}{3x-9}$