

CHAPTER 3

Polynomial Functions

Getting Started, p. 122

1. a) $2x^2(3x - 11)$

$$6x^3 - 22x^2$$

b) $(x - 4)(x + 6)$

$$x^2 + 6x - 4x - 24$$

$$x^2 + 2x - 24$$

c) $4x(2x - 5)(3x + 2)$

$$(8x^2 - 20x)(3x + 2)$$

$$24x^3 + 16x^2 - 60x^2 - 40x$$

$$24x^3 - 44x^2 - 40x$$

d) $(5x - 4)(x^2 + 7x - 3)$

$$5x^3 + 35x^2 - 40x - 4x^2 - 28x + 32$$

$$5x^3 + 31x^2 - 68x + 32$$

2. a) $x^2 + 3x - 28$

$$(x + 7)(x - 4)$$

b) $2x^2 - 18x + 28$

$$2(x^2 - 9x + 14)$$

c) $2(x - 2)(x - 7)$

d) $3x + 7 = x - 5$

$$3x + 7 - x - 7 = x - 5 - x - 7$$

$$2x = -12$$

$$x = -6$$

e) $(x + 3)(2x - 9) = 0$

$$x + 3 = 0 \text{ and } 2x - 9 = 0$$

$$x = -3 \text{ and } x = \frac{9}{2}$$

$$x = -3, 4.5$$

f) $x^2 + 11x + 24 = 0$

$$(x + 3)(x + 8) = 0$$

$$x + 3 = 0 \text{ and } x + 8 = 0$$

$$x = -3 \text{ and } x = -8$$

g) $6x^2 + 22x - 8 = 0$

$$6x^2 + 22x - 8 = 0$$

$$3x^2 + 11x - 4 = 0$$

h) $(3x - 1)(x + 4) = 0$

$$3x - 1 = 0 \text{ and } x + 4 = 0$$

$$x = \frac{1}{3} \quad x = -4$$

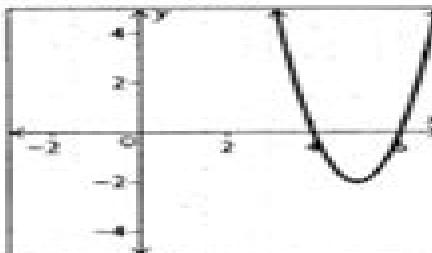
4. a) $y = \frac{1}{2}(x - 3)^2 + 9$

vertical compression by a factor of $\frac{1}{2}$, horizontal translation 3 units to the right, vertical translation 9 units up

b) $y = \left(\frac{1}{2}x\right)^2 - 7$

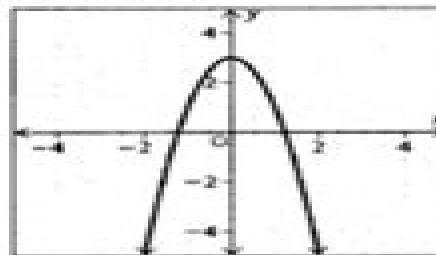
vertical compression by a factor of $\frac{1}{2}$, vertical translation 7 units down

5. a)



Working from the parent function $y = x^2$, the vertex is at $(3, -2)$. It opens upward. It is vertically stretched by a factor of 2. The equation is $y = 2(x - 3)^2 - 2$.

b)



Working from the parent function $y = x^2$, the vertex is at $(0, 3)$. It opens downward. It is vertically stretched by a factor of 2. The equation is $y = -2x^2 + 3$.

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**Canada. Dept. of Agriculture Division
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,1997-10 Bio-Inspired Materials Ulisses Targino Bezerra,Heber Sivini Ferreira,Normando Perazzo Barbosa,2019-04-16

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