

Answers to Math Placement B-Test Sample Problems

(1) (a) $x - 1$

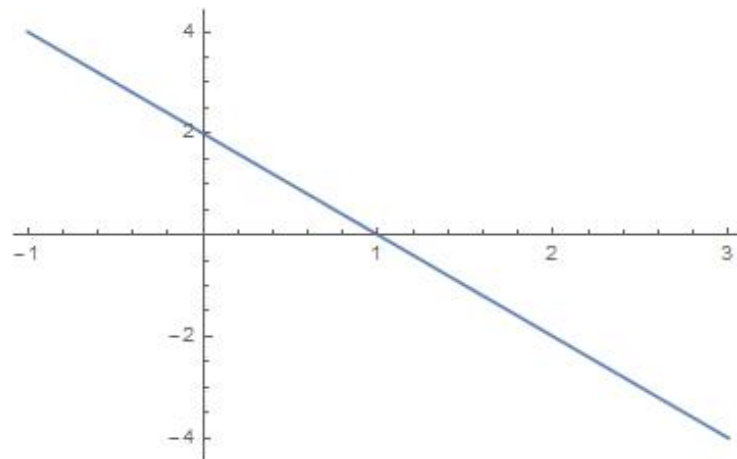
(b) $\frac{2x^2}{x^2 - 1}$

(c) $\frac{x}{3x + 1}$

(2) $\frac{x^{13}}{y^{16}}$

(3) $x + 2y - 5 = 0$

(4) $(1,0), (0,2), -2$



(5) $x = -5, y = -4$

(6) $(2x + 3)(3x + 2)$

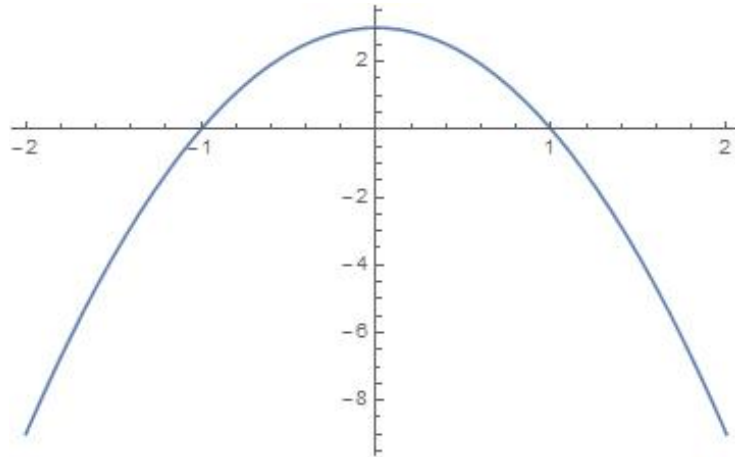
(7) (a) $x = 5, -1$

(b) $x = 1, -1, 3, -3$

(c) $x = \frac{1}{2}$

(d) $x = \frac{S - 2\pi r^2}{8\pi}$

(8)



(9) $a = \frac{kb\sqrt{c}}{d^3}$

(10) $\ell(\overline{BC}) = 3$ $\ell(\overline{AB}) = 3\sqrt{2}$ $m(\angle A) = 45^\circ = m(\angle B)$

(11) 3, 7.5, 9

(12) 11 inches

(13) 18 gallons