

Unit 4 Review Key

Secondary 3 Honors

1a) $\frac{x^3 - 4x^2 + 9x - 6}{6x^2}, x \neq 0$

b) $\frac{a(a-2)}{a+5}, a \neq -5, -2, 7$

c) $\frac{3}{2}, x \neq 3$

d) $\frac{4}{1-3x}, x \neq 0, \pm \frac{1}{3}$

2a) no solution

b) $x = -\frac{21}{9}$

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

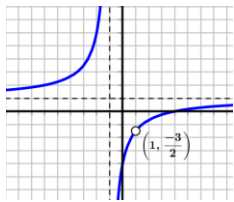
4) $(3, \frac{7}{4})$

5) VA: $x = -2$ (even)

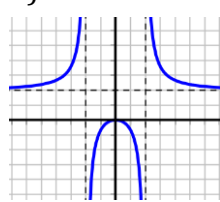
HA: $y = 0$

6) $y = 2$

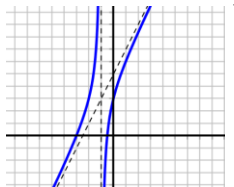
7a)



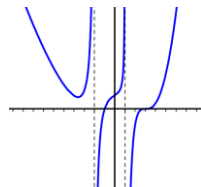
b)



c)



d)



8) $y = \frac{x(x-3)}{2(x+1)(x-3)}$

9a) $\uparrow\uparrow$

b) SA: $y = 2x - 7$

c) $\uparrow\uparrow$

d) $\uparrow\downarrow$

10a) $\frac{x+3}{x-2}$

b) $\frac{5}{x-4}$

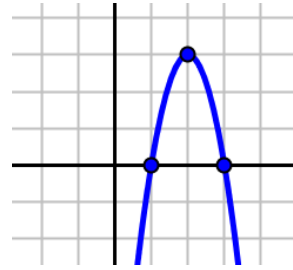
c) $\frac{2(x-5)}{x-1}$

11a) $x = -4 \pm \sqrt{7}$

b) $x = \frac{-7 \pm \sqrt{69}}{2}$

c) $x = \frac{5}{2}$

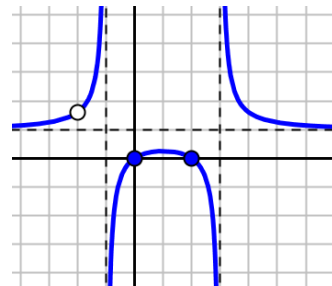
12a)



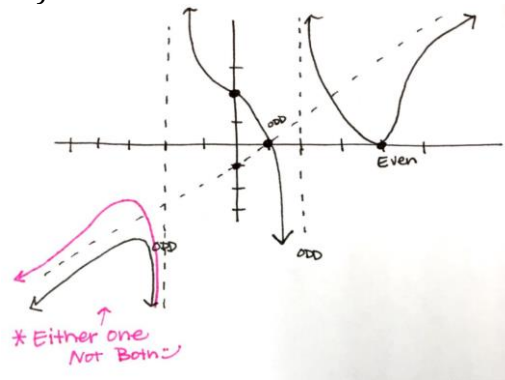
b)



13)



14)



15a) 1250 ft²

b) 25 ft x 50 ft