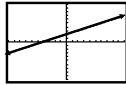
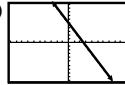
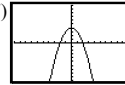
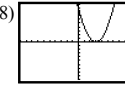
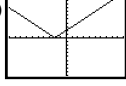
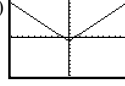
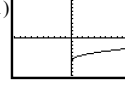
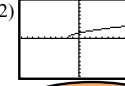
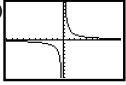
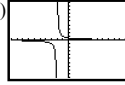


1) b 2) d 3) a 4) c

5)  6)  7)  8) 

9)  10)  11)  12) 

13)  14) 

17) a)  $y = 1.732$   
b)  $x = -4$

19)  $y$ -int:  $(0, -5)$   
 $x$ -int:  $\{2.5\}$

21)  $y$ -int:  $(0, -2)$   
 $x$ -int:  $\{-2, 1\}$

23)  $y$ -int:  $(0, 0)$   
 $x$ -int:  $\{0, \pm 4\}$

25)  $y$ -int: none  
 $x$ -int:  $\{4\}$

27)  $y$ -int:  $(0, 0)$   
 $x$ -int:  $\{0\}$

Calculus AB  
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29)  $y$ -axis  
31)  $x$ -axis  
33) origin  
35) none  
37) origin  
39)  $y$ -axis  
41)  $x$ -intercept:  $\{\frac{2}{3}\}$   
 $y$ -intercept:  $(0, 2)$   
symmetry: none  
43)  $x$ -intercept:  $\{8\}$   
 $y$ -intercept:  $(0, -4)$   
symmetry: none  
45)  $x$ -intercepts:  $\{\pm 3\}$   
 $y$ -intercept:  $(0, 9)$   
symmetry:  $y$ -axis  
47)  $x$ -intercept:  $\{-3\}$   
 $y$ -intercept:  $(0, 9)$   
symmetry: none

49)  $x$ -intercepts:  $\{\sqrt{2}\}$   
 $y$ -intercept:  $(0, 2)$   
symmetry: none  
51)  $x$ -intercepts:  $\{-5, 0\}$   
 $y$ -intercept:  $(0, 0)$   
symmetry: none  
53)  $x$ -intercepts:  $\{0\}$   
 $y$ -intercept:  $(0, 0)$   
symmetry: origin  
55)  $x$ -intercepts: none  
 $y$ -intercept: none  
symmetry: origin


57)  $x$ -intercepts:  $\{\pm 6\}$   
 $y$ -intercept:  $(0, 6)$   
symmetry:  $y$ -axis  
63)  $\{(3, 5)\}$   
65)  $\{(2, 2), (-1, 5)\}$   
67)  $\{(-1, -2), (2, 1)\}$   
69)  $\{(0, 0), (-1, -1), (1, 1)\}$   
71)  $\{(-1, -5), (0, -1), (2, 1)\}$   
73)  $\{(-2, 2), (-3, \sqrt{3})\}$

75) a)  $y = -0.027t^2 + 5.73t + 26.9$   
c) For 2010,  $t = 40$  and  $y = 212.9$

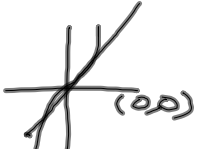
76) a)  $y = 0.77t^2 + 2.1t + 4$   
c) For 2015,  $t = 25$  and  $y \approx 538$  million

51)  $y = x\sqrt{x+5}$   
 $x$ -int:  $0 = x\sqrt{x+5}$   
 $x=0$   $\sqrt{x+5}=0$   
 $\{0, -5\}$   $x=-5$   
 $y$ -int:  $y = 0\sqrt{0+5}$   
 $y=0$   
 $(0, 0)$

55)  $y = \frac{8}{x}$   
 $x$ -int: none  
 $y$ -int: none  
origin  
 $y = \frac{1}{x}$



69)  $y = x^3$   
 $y = x$



67)  $y = (y)^3$   
 $y = y^3$   
 $0 = y^3 - y$   
 $0 = y(y^2 - 1)$   
 $0 = y(y+1)(y-1)$   
 $0, \pm 1$   
 $(-1, -1)$   
 $(1, 1)$