

Chapter 7 Quiz #2 Review – Answers

1.  $(x+3)(x-3)$     2.  $(b+5)(b-2)$     3.  $2(x-6)(x-3)$     4.  $(2h+7)(2h-7)$     5.  $(x-8)(x-3)$

6.  $(3x+7)(2x-1)$     7.  $-3m^2(2m+15)(m+1)$     8.  $3x(2x+3)(2x-3)$     9.  $-2(4x-5)(x-2)$

10.  $x = -4$      $x = -10$     11.  $x = 16$      $x = 8$     12. LOS:  $x = -4$ , V:  $(-4, -26)$

13. LOS:  $x = -5$ , V:  $(-5, 61)$     14.  $f(x) = -2x^2 + 12x + 5$     15.  $g(x) = 15x^3 + 10x^2 - 40x$

16. V:  $f(x) = \frac{3}{2}(x+4)^2 + 2$     S:  $f(x) = \frac{3}{2}x^2 + 12x + 26$

17. F:  $g(x) = -(2x+9)(2x-1)$     S:  $g(x) = -4x^2 - 16x + 9$

$f(x) = -3(x-2)^2 + 108$

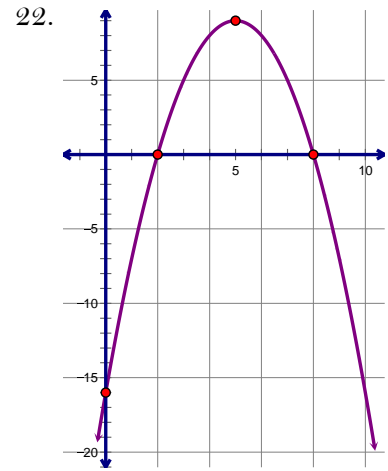
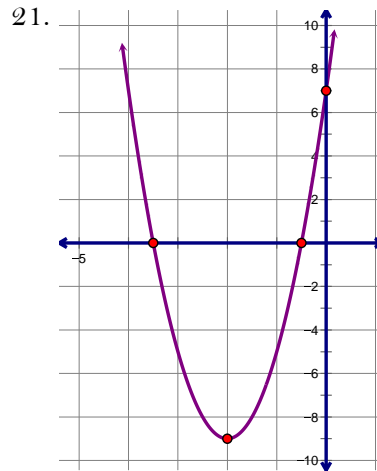
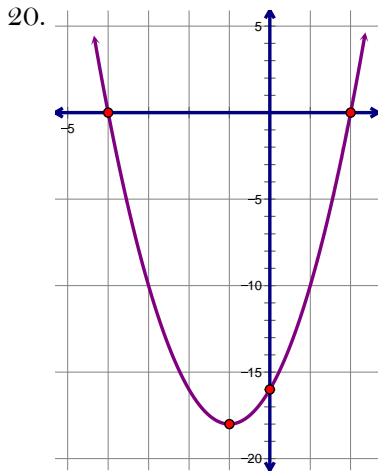
$g(x) = \frac{1}{2}(x-7)^2 - 2$

18.  $f(x) = -3x^2 - 12x - 96$

19.  $g(x) = \frac{1}{2}x^2 - 7x - \frac{45}{2}$

$f(x) = -3(x+4)(x-8)$

$g(x) = \frac{1}{2}(x-9)(x-5)$



23.  $f(x) = (x+1)^2 + 7$

24.  $f(x) = (x-3)^2 - 22$

25.  $f(x) = 2(x-3)^2 - 2$

26.  $f(x) = 5\left(x - \frac{3}{2}\right)^2 - \frac{129}{4}$

27.  $a = 8$ ,  $a = 2$

28.  $x = 3$ ,  $x = 4$

29.  $x = -2 \pm \sqrt{3}$

30.  $x = \frac{3}{4} \pm \frac{\sqrt{11}}{4}$

31.  $x = -1 \pm \frac{\sqrt{3}}{2}$