

TRIG Chapter 7 Practice Test 2 Answers

1. $3x^2 + 14x - 3$
2. $-10x^{-3} - x^{-2}$
3. $-30x^{-7} - 12x^{-5} - \frac{1}{2}x$ OR $\frac{-30}{x^7} - \frac{12}{x^5} - \frac{1}{2}x$
4. -4
5. 6
6. $y = 4x - 8$
7. $y = 112x - 160$
8. $(0,0)$ $\left(\frac{2}{3}, -0.6\right)$ $\left(1\frac{1}{3}, -1.2\right)$
9. (4, 112) (6, 108) (5, 110)
10. (0, 4) is a relative minimum
(-1, 6) is a point of inflection
(-2, 8) is a relative maximum
11. x-intercept at -4 and 1 (-4, 0) (1, 0)
y-intercept at -4 (0, -4)
12. x-intercept at -5 and 2 (-5, 0) (2, 0)
y-intercept at -10 (0, -10)
13. x-intercept at 6 and -2 (6, 0) (-2, 0)
y-intercept at -12 (0, -12)
14. Determinant value = -4 Number of Solutions = 0
15. Determinant value = 0 Number of Solutions = 1
16. B
17. A
18. C