

SM3 Unit 3 test review answers

1. $x = -6$
2. $x = -5, 2$
3. $x = -2$
4. $x = 1, 0$
5. $x = 26$, restrictions: $x \geq 1$
6. $x = -\frac{5}{7}$
7. $x = 6$, restrictions: $x \neq 5, -5$
8. $x = 14$
9. $x = -\frac{4}{3}$, restrictions: $x \neq -10$
10. $x = 6, \frac{2}{3}$
11. $x = 6, -2, \frac{1}{3}$
12. $x = 6, -6$, restrictions: $x \neq 0, 3$
13. $x = -5 \pm \sqrt{17}$
14. $x = 12, -22$
15. $x = \sqrt[4]{3}$
16. $x = -\frac{3}{2}, 4$
17. $x = 3, -3, -\frac{5}{2}$
18. $x = 4, 1$, restrictions: $x \neq -5, 2$
19. $x = \frac{199}{4}$, restrictions: $x \geq \frac{3}{4}$
20. no solution, restrictions: $x \neq -6$
21. $x = 3$, restrictions: $x \neq -3, 4$
22. $x = \frac{-5y-1}{y-2}$ or $x = \frac{5y+1}{-y+2}$
23. $y = \frac{2gh}{v_0^2}$
24. $R = \frac{P_2 - P_1}{Q}$
25. $R = \pm \sqrt{z^2 - (x_L - x_C)^2}$