

Algebra Skills Review Answers

1. $\frac{7}{6}$
2. $\frac{5}{4}$
3. $-\frac{5}{8}$
4. $-2/5; -2/5; \text{parallel}$
5. $3/2; -2/3; \text{perpendicular}$
6. $3/5; -5/3; \text{perpendicular}$
7. $8/9; -4/3; \text{neither}$
8. $4/3; 4/3; \text{parallel}$
9. $5/3; 3/5; \text{neither}$
10. $Y=2x-3$
11. $Y= -2x+5$
12. $Y=2/3 x +1$
13. $Y= -3/4 x + 13/2$
14. $Y= -x + 6$
15. $Y= \frac{1}{2} x + 4$
16. $Y= \frac{3}{4} x -5/2$
17. $y= -4x - 7$
18. $Y= 10/3 x + 25/3$
19. $Y= 1/5 x - 2$
20. $Y= -\frac{1}{2} x + 11$
21. $Y= -x + 12$
22. $X= 5$
23. $Y= -9$
24. $(x+8)(x+1)$
25. $(x+9)(x-5)$
26. $(x-5)(x-3)$
27. $(x-12)(x+4)$
28. $(3x+7)(x+1)$
29. $(3x-1)(4x+5)$
30. $-1/3$
31. $5/2 \text{ or } -1$
32. $\frac{6 \pm 2\sqrt{6}}{3} \text{ or } 2 \pm \frac{2\sqrt{6}}{3}$
33. $\frac{3 \pm \sqrt{3}}{6}$
34. $(-2, 4)$
35. Infinitely many solutions
36. $(3, -2)$
37. No solution

#37 the lines are parallel with no solution

#35 has infinitely many solutions

38. $(-1, 3)$
39. $(2, 9)$
40. Infinitely many solutions
41. $(8, 0)$
42. $6\sqrt{3}$
43. $5\sqrt{6}$
44. $8\sqrt{2}$
45. $6\sqrt{10}$
46. $\sqrt{3}$