

$$30. a = 4; b = -1$$

$$31. x = 4; y = 5$$

$$32. \frac{2}{3} \leq x < 3$$

$$34. -\frac{7}{10}$$

$$35. m = -\frac{1}{2}$$

$$36. y = 2x$$

$$37. \frac{1}{6}x + \frac{17}{3}$$

$$38. \frac{(x+4)(x-4)}{5(x-3)}$$

$$39. \frac{x^2}{3(x-8)}$$

$$40. \frac{2(x+1)}{x+3}$$

$$41. \frac{x-4}{(x-1)(x-2)}$$