

$$48. 2c^2 + kc + 12$$

$$k = \{13, 8, 7, -7, -8, -13\} *$$

$$49. 3s^2 + ks - 14$$

$$k = \{13, 5, -5, -13\} *$$

$$50. x^2 + 8x + k, k > 0$$

$$k = \{7, 12, 15, 16\} *$$

$$51. n^2 - 5n + k, k > 0$$

$$k = \{4, 6\} *$$