Classroom Voting Questions: Algebra

Section 6.2: Factoring Trinomials of the Form $x^2 + bx + c$

- 1. What two integers c_1 and c_2 have a product of 12 and a sum of -7?
 - (a) $c_1 = -2$ and $c_2 = -6$
 - (b) $c_1 = 3$ and $c_2 = -4$
 - (c) Integers not listed here
 - (d) There are no such integers.
- 2. Factor: $x^2 7x + 12$
 - (a) (x+3)(x+4)
 - (b) (x-3)(x-4)
 - (c) (x+6)(x+2)
 - (d) (x-6)(x-2)
 - (e) This cannot be factored.
- 3. What two integers c_1 and c_2 have a product of -11 and a sum of 10?
 - (a) $c_1 = -11$ and $c_2 = -1$
 - (b) $c_1 = 11$ and $c_2 = -1$
 - (c) Integers not listed here
 - (d) There are no such integers.
- 4. Factor: $x^2 + 10x 11$
 - (a) (x+1)(x-11)
 - (b) (x+1)(x+11)
 - (c) (x-1)(x-11)
 - (d) (x-1)(x+11)
 - (e) This cannot be factored.

- 5. What two integers c_1 and c_2 have a product of 24 and a sum of -10?
 - (a) $c_1 = 6$ and $c_2 = 4$
 - (b) $c_1 = -12$ and $c_2 = 2$
 - (c) Integers not listed here
 - (d) There are no such integers.
- 6. Factor: $x^2 10x + 24$
 - (a) (x+2)(x+12)
 - (b) (x-2)(x-12)
 - (c) (x+6)(x+4)
 - (d) (x-6)(x-4)
 - (e) This cannot be factored.
- 7. What two integers c_1 and c_2 have a product of 12 and a sum of -11?
 - (a) $c_1 = -12$ and $c_2 = 1$
 - (b) $c_1 = -12$ and $c_2 = -1$
 - (c) Integers not listed here
 - (d) There are no such integers.
- 8. Factor: $x^2 11x + 12$
 - (a) (x+12)(x+1)
 - (b) (x+12)(x-1)
 - (c) (x-12)(x+1)
 - (d) (x-12)(x-1)
 - (e) This cannot be factored.