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$$e) (x+5)^2 - x^2 - 32 = (x+1)(x+2) - x^2$$

$$x^2 + 10x + 25 - 32 = x^2 + 2x + 2$$

$$10x + 25 - 32 = 2x + 2$$

$$10x - 7 = 2x + 2$$

$$10x - 3x = 7 + 2$$

$$7x = 9$$

$$x = \frac{9}{7}$$

$$x = 1.29$$