

What is the expression in factored form?

4. $5x^2 + 29x + 20$

$$\begin{array}{c} \wedge \\ 25x \quad 4x \end{array}$$

$$\begin{array}{c} AC = 100 \\ \wedge \\ 25 \quad 4 \end{array}$$

$$(5x^2 + 25x) + (4x + 20)$$

$$5x(x+5) + 4(x+5)$$

$$\boxed{(5x+4)(x+5)}$$

What are the solutions of the quadratic equation?

5. $4x^2 + 12x + 8 = 0$

$$\begin{array}{c} \wedge \\ 8x \quad 4x \end{array}$$

$$\begin{array}{c} AC = 32 \\ \wedge \\ 8 \quad 4 \end{array}$$

$$(4x^2 + 8x) + (4x + 8) = 0$$

$$4x(x+2) + 4(x+2) = 0$$

$$(x+2)(4x+4) = 0$$

$$x+2=0$$

$$\boxed{x = -2}$$

$$4x+4=0$$

$$\begin{array}{c} 4x = -4 \\ \boxed{x = -1} \end{array}$$

Solve by using tables. Give each answer to at most two decimal places.

6. $-8x^2 - 2 = -9x$

$$y = -8x^2 + 9x - 2$$

Put equation on calculator. Find

$$\boxed{x \approx 0.43, 0.85}$$

x-value.