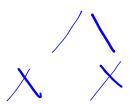


Q2
B:

$$4. \quad 2x - 24 = -x^2$$

$$\begin{array}{r} +x^2 \qquad \qquad \qquad +x^2 \\ \hline x^2 + 2x - 24 = 0 \end{array}$$



- 1. 24
- 2. 12
- 3. 8
- 4. 6

$$(x - 4)(x + 6) = 0$$

$$\begin{array}{r} x - 4 = 0 \\ +4 \quad +4 \\ \hline x = 4 \end{array}$$

$$\begin{array}{r} x + 6 = 0 \\ -6 \quad -6 \\ \hline x = -6 \end{array}$$

FACTOR

1. set = 0
2. GCF
3. () ()

Q3 2. $x^2 - 20x + 100 = 97 + 100$ Comp \square
VA

$$\frac{-20}{2} = \underline{-10}$$
$$(-10)^2 = 100$$
$$\sqrt{(x-10)^2} = \sqrt{197}$$
$$x - 10 = \pm \sqrt{197}$$

$$x = 10 \pm \sqrt{197}$$

St. 1 3. $\frac{5x^2}{5x} + \frac{25x}{5x} = 0$ (FACTOR)

1. = 0
2. GCF

$$\textcircled{5x}(x+5) = 0$$

$$\frac{5x}{5} = \frac{0}{5}$$
$$x = 0$$

$$x + 5 = 0$$

$$x = -5$$

ST4 1. $6x^2 - 11x - 140 = 0$ QF

a: 6

b: -11

c: -140

$$b^2 - 4ac = (-11)^2 - 4(6)(-140)$$

$$3481$$

$$x = \frac{11 \pm \sqrt{3481}}{2(6)} \quad 59$$

$$x = \frac{11 \pm 59}{12}$$

$$x = \frac{11 + 59}{12} = \frac{70}{12}$$

$$x = \frac{35}{6}$$

$$x = \frac{11 - 59}{12} = \frac{-48}{12}$$

$$x = -4$$

St 2 3. $x^2 - 7 = 74$ SADMEP

$$\begin{array}{r} x^2 - 7 = 74 \\ +7 \quad +7 \\ \hline \sqrt{x^2} = \sqrt{81} \\ x = \pm 9 \end{array}$$