

0.6

(17) $49a^2 - 144b^2$

$(7a + 12b)(7a - 12b)$

(23) $x^3 + 4x^2 - 5x - 20$

$(x^3 + 4x^2) - (5x + 20)$

$x^2(x + 4) - 5(x + 4)$

$(x + 4)(x^2 - 5)$

(Factor by grouping the 1st two terms + the last two terms)

(37) $10x^2 + 19x + 6$

Either $(10x \quad)(x \quad)$ or $(5x \quad)(2x \quad)$

Either $1 + 6$ or $2 + 3$

$\Rightarrow (5x + 2)(2x + 3)$

0.5

$$\textcircled{19} -[8 - 4(q+5) + q]$$

$$-[8 - 4q - 20 + q]$$

$$-[-12 - 3q]$$

$$\textcircled{12 + 3q}$$

$$\textcircled{21} x^2 - [x - (x^2 - 1) + 1 - (1 - x^2)] + x$$

$$x^2 - [x - x^2 + 1 + 1 - 1 + x^2] + x$$

$$x^2 - [x + 1] + x$$

$$x^2 - x - 1 + x$$

$$\textcircled{x^2 - 1}$$