

CHECK ANSWERS: ch.4 #12-14,

$$3x^2 + 10x + 8 = (3x + 4)(x + 2)$$

$$2x^2 + 5x + 3 = (2x + 3)(x + 1)$$

$$6x^2 + 17x + 12 = (2x + 3)(3x + 4)$$

$$10x^2 - 39x + 14 = (5x - 2)(2x - 7)$$

$$2x^2 + 7x + 6 = (2x + 3)(x + 2)$$

$$(-35x)(-4x) = 140x^2 \quad (10x^2)(14) = 140x^2$$

Products of the diagonals are equal

The sum is $7x$ and product is $12x^2$

Cross off two sets of factors for #16, 18:

$$(x - 6) \quad (x - 5) \quad (2x - 1) \quad (2x - 3) \quad (3x - 2)$$

$$(4x - 3) \quad (x + 3) \quad (x + 2) \quad (x + 4) \quad \text{Not factorable}$$

$$(x + 5) \quad (x + 6) \quad (2x + 1) \quad (2x + 1) \quad (2x + 1)$$

#22, #20 → complete table and sketch graph

$$x=10 \quad \text{vertex}=(0,0) \quad \text{GFZ} \quad \text{HZE} \quad \text{GFZ} \quad \text{EHZ}$$

Copy flowchart onto your homework paper
and complete it:

