

P148-149 # 1-8, 13-21 odd, 27-30

OR

- | | |
|-----|-----|
| ① c | ⑤ a |
| ② g | ⑥ e |
| ③ h | ⑦ d |
| ④ f | ⑧ b |

⑬ $f(x) = \frac{1}{3}x^3 + 5x$
falls left, rises right

⑮ $g(x) = 5 - \frac{7}{2}x - 3x^2$
falls left & right

⑰ $f(x) = -2.1x^5 + 4x^3 - 2$
rises left, falls right

⑲ $f(x) = 6 - 2x + 4x^2 - 5x^3$
rises left, falls right

⑳ $h(t) = -\frac{2}{3}(t^2 - 5t + 3)$
falls left & right

㉓ $f(x) = x^2 - 25$

㉔ $0 = (x+5)(x-5)$
 $x=5, x=-5$

㉕ mult = 1 for both
at most 1 turn

㉖ Calc

$$(28) f(x) = 49 - x^2 = -(x^2 - 49)$$

$$(a) 0 = -(x+7)(x-7)$$

$$x = 7, -7$$

(b) mult = 1
at most 1 turn

(c) calc ✓

$$(29) h(t) = t^2 - 6t + 9 = (t-3)(t-3)$$

(a) zero @ $t = 3$

(b) mult = 2
at most 1 turn

(c)

$$(30) f(x) = x^2 + 10x + 25$$

$$(a) 0 = (x+5)(x+5)$$

(b) mult = 2
at most 1 turn

(c) calc