Pg 121 #12-27

Algebra 2 Honors
HW Due 10/18/17

(12) Quadratic

(13) Quadratic

(14) Not quadratic

(15) $f(x) = \frac{4}{3}x^2 - x - \frac{7}{3}$

(16) $f(x) = x^2 - 6x + 7$

(17) $f(x) = 0.5x^2 - 3x - 8$

(18) $f(x) = 3x^2 + 0.8x + 0.4$

(19) $y = -3.7x^2 + 216x + 781$
about $3.29 billion

(20) $C(r) = 2\pi r \rightarrow$ linear

(21) $A(b) = \frac{1}{2}bh \rightarrow$ linear

(22) $P(t) = 2^t \rightarrow$ neither

(23) $A(s) = s^2 \rightarrow$ quadratic

(24) a) Galileo's Rule

b) Aristotle's Rule → linear
da Vinci's Rule → quadratic
Galileo's Rule → quadratic

c) da Vinci's 2nd difference is 1 while Galileo's Rule has 2nd differences of 2

d) Galileo's Rule

(25) -3

(26) -2

(27) -1