1) A) $ATC = q + 10 + \frac{100}{q}$

B) $AVC = q + 10$

C) 10

D) Inverse supply: $p = 2q + 10$

Supply: $q = \frac{p-10}{2}$ if $p \geq 10$ and $q = 0$ otherwise.

E) 10

F) 30

G) $q = \frac{p-10}{2}$ if $p \geq 10$ and 0 otherwise.

H) $Q = 10\frac{p-10}{2} = 5(p - 10)$ if $p \geq 10$ and 0 otherwise.

I) $p = 20$

J) $q = 5$

K) $\pi = 20(5) - (5^2 + 10(5) + 100) = -75$