

week 6.

7. (A), $TC = 50$
 $\rightarrow ATC = \frac{50}{10} = 5.$

(B) $TCV = q^3 - 12q^2 + 1q$
 $AVC = \frac{TCV}{q} = q^2 - 12q + 1$

$\Rightarrow \frac{\partial AVC}{\partial q} = 2q - 12 = 0.$

$\rightarrow q = 6$

(C) ~~ATC~~ ~~AVC~~ ~~MP~~ ~~L~~ ~~MP~~ ~~L~~ ~~MP~~ ~~L~~
 $\rightarrow q > 6$

(D) $MC = 3q^2 - 24q + 1$

$\Rightarrow 6q - 24 = 0$

$\Rightarrow q = 4.$

~~MC~~ ~~MP~~ ~~L~~ ~~MP~~ ~~L~~ ~~MP~~ ~~L~~
 $q = 4$