

6. (CONT.)

$$f(x) = x\sqrt{4+x}$$

$$f'(x) = \frac{3x+16}{4(4+x)^{3/2}} \leftarrow$$

DOMAIN

$$4+x \geq 0$$

$$x \geq -4$$

②  $3x+16=0$      $4(4+x)^{3/2}=0$

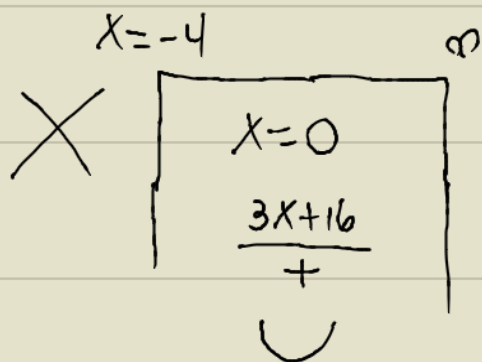
$$3x = -16$$

$$4+x=0$$

$$x = -\frac{16}{3}$$

$$x = -4$$

$$(4+x)^{3/2}$$
$$\left[ (4+x)^{1/2} \right]^3$$
$$\left[ \sqrt{4+x} \right]^3$$



CONC UP  $(-4, \infty)$

NO POI'S