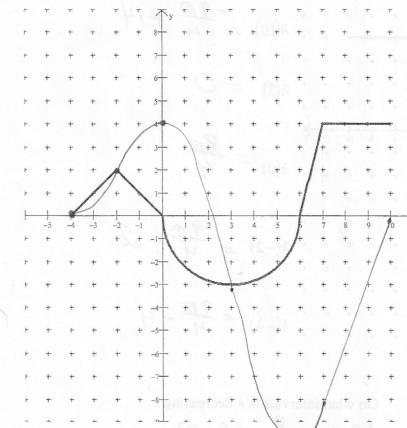
Accumulator Functions

Let
$$g(x) = \int_{-4}^{x} f(t)dt$$



Compute
$$g(-4) = \int_{-4}^{4} f(t)dt = 0$$

$$g(-2) = 2$$

$$g(3) = 4 - \frac{9\pi}{4}$$

$$g(6) = 4 - \frac{9\pi}{2}$$

$$g(10) = 18 - \frac{9\pi}{2}$$

On what intervals is g increasing

ie Wen +>0 Where does g has a relative maximum?

On what intervals is g decreasing

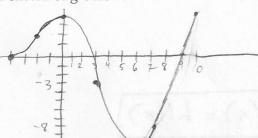
if when f < 0

Relative minimum?

$$@X = 6$$

Absolute maximum?
$$\frac{9\pi}{2} > 14$$

So
$$9(0)$$
 $79(10)$ $max = 4$
Make a sketch of g below:

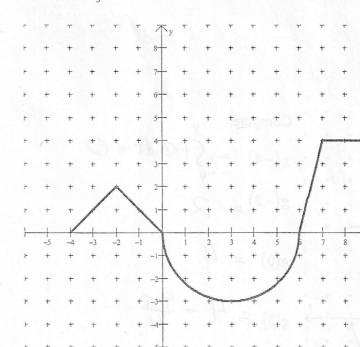


Absolute minimum?

$$0 \times = 6 \quad b/c \qquad \frac{9\pi}{2} > 4$$

$$50 \quad g(6) < g(-4) \qquad min = 4 - \frac{9\pi}{2}$$

Let
$$h(x) = \int_{3}^{x} f(t)dt$$



$$h(6) = \frac{-9\pi}{4}$$

$$h(10) = \frac{-90}{4} + 14$$

$$h(3) = 0$$

$$h(0) = \frac{9\pi}{4}$$

$$h(-2) = \frac{94}{4} - 2$$

$$h(-4) = \frac{9\pi}{4} - 4$$

On what intervals is h increasing

On what intervals is
$$h$$
 decreasing

Where does h has a relative maximum? $(\omega) \times = 0$

Relative minimum?
$$\times = 6$$

Absolute maximum?
$$(a) \times = 0$$

$$max = 4$$

Absolute minimum?

$$X = 6 \qquad -97$$

$$Min = -97$$

Make a sketch of
$$h$$
 below: