



Test in/ Examen de :

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Class/ La Classe:

Time / La durée :

Date / La date:

b) A.D ANM = 3.28

$$\frac{8-x^2}{2} = 3.28$$

$$8-x^2 = 6.56$$

$$8-x^2-6.56=0$$

$$-x^2+1.44=0$$

$$(-x^2 = -1.44) (-)$$

$$\sqrt{x^2} = \sqrt{1.44}$$

$$x = \sqrt{(1.2)^2}$$

$$x = \pm 1.2$$

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accepted $0 < x < 2$

5) a) In $\Delta D, D, IN$ & NMC :

(I, N, M) & (D, N, C) collinear (given).

$(AD) \parallel (BC)$ (opp. sides of rectangle)

so, $(DI) \parallel (MC)$ (parts of parallel or parallel)

Apply Thales' theorem: 2 parallel st. lines in

Thus Relations: $\frac{NI}{NC} = \frac{ND}{MC} = \frac{DI}{MC}$ 2 Δ s divide the side into equal ratios (proportion):

Use 3 & 2

$$\frac{ND}{NC} = \frac{DI}{MC}$$

$$\frac{DI}{2-x} = \frac{2}{4-x}$$

$$DI = \frac{2-x(x)}{4-x}$$

$$DI = \frac{2x-x^2}{4-x}$$

P.10

cm

3