

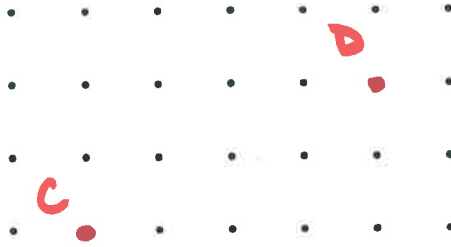
NOTES FOR PROBLEM 3.3

Name _____ Date _____ Class _____
FIND THE DISTANCE BETWEEN POINTS ON DOT PAPER

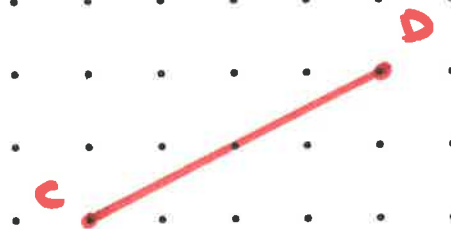
Dot Paper

Looking for Pythagoras

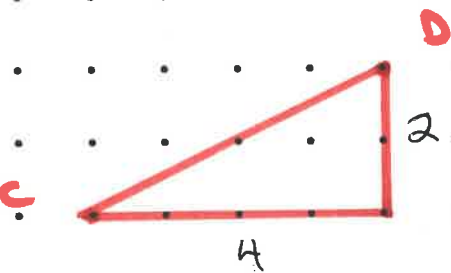
FIND THE DISTANCE FROM C TO D



DRAW A LINE SEGMENT FROM C TO D



CD BECOMES THE HYPOTENUSE OF A RIGHT TRIANGLE.



DRAW THE LEGS OF THE RIGHT TRIANGLE.

LABEL THE LENGTHS OF THE LEGS.

NOW USE THE PYTHAGOREAN THEOREM TO FIND THE LENGTH OF THE HYPOTENUSE.

$$A^2 + B^2 = C^2$$

$$2^2 + 4^2 = C^2$$

$$4 + 16 = C^2$$

$$20 = C^2$$

$$\sqrt{20} = C$$

THE HYPOTENUSE HAS A LENGTH OF $\sqrt{20}$ UNITS (≈ 4.5 units), $\therefore CD = \sqrt{20}$ or ≈ 4.5 units