

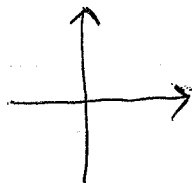
SHAPES, METHODS, CONNECTIONS

1. GIVEN EQUATIONS, GIVE NAMES OF SHAPES,
MAKE A SIMPLE SKETCH & STATE "FEATURES"

a, $x^2 + y^2 = 25$

NAME = _____

WHAT DOES "25" MEAN?



FEATURES?

b, $x^2/9 + y^2/4 = 1$

NAME = _____

"9" ? "4" ?

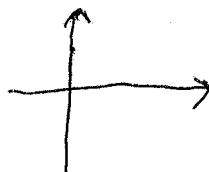


FEATURES?

c, $x^2/9 - y^2/4 = 1$

NAME = _____

"9" ? "4" ?



FEATURES?

2. GIVEN DERIVATIVE, FIND A RELATION.

(NOT NECESSARILY A FUNCTION) BETWEEN X AND Y.

$$dy/dx = -\frac{x}{y}, \quad y(0) = 5$$

a, WHAT METHOD WOULD YOU USE? (BE SPECIFIC IN THE NAME OF THE MAIN METHOD)

b, FIND THE RELATION (BETWEEN X AND Y), WHAT IS SHAPE?

3. GIVEN RELATION, FIND DERIVATIVE.

$$x^2/9 + y^2/4 = 1$$

a, WHAT METHOD WOULD YOU USE? (BE SPECIFIC IN THE NAME OF THE MAIN METHOD)

b, FIND THE DERIVATIVE dy/dx . (NOT NECESSARILY A FUNCTION.)