

# HW #18

## Geometry - Quadrilaterals Definitions, Area, and Perimeter

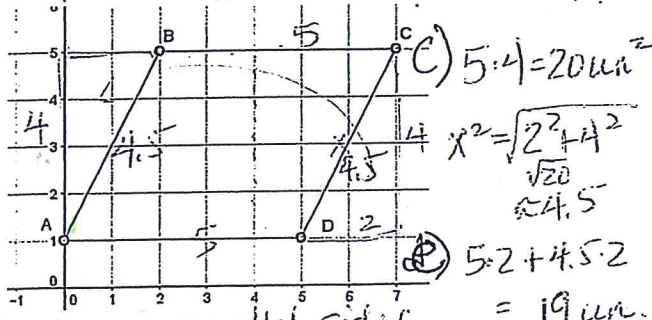
Name \_\_\_\_\_

Figure out areas by breaking into triangles & rectangles  
 $\frac{1}{2}bh$   
 base  $\cdot$  height

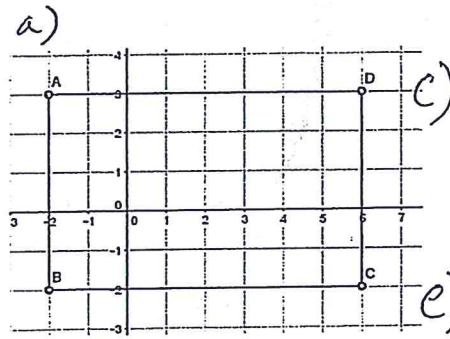
For each quadrilateral graphed, give

- a) Type and name of quadrilateral    b) Why it is this type of quadrilateral (see definition)  
 c) area in square units    d) side lengths  
 e) perimeter

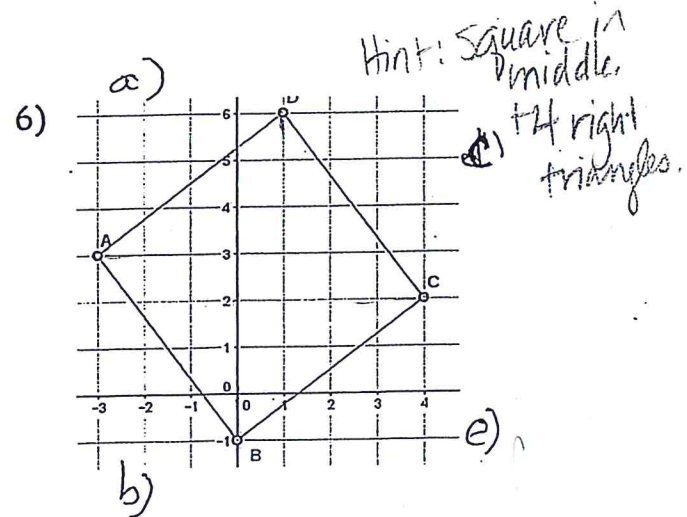
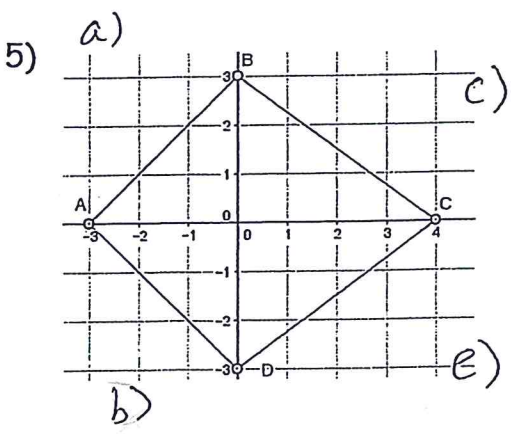
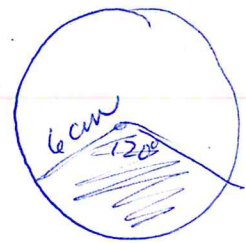
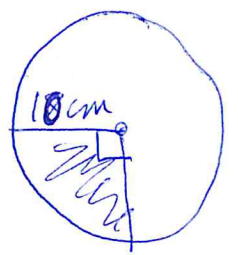
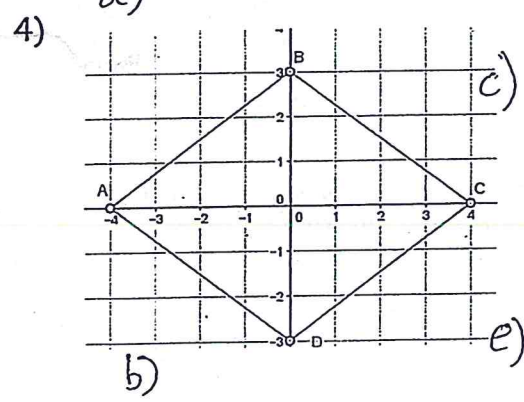
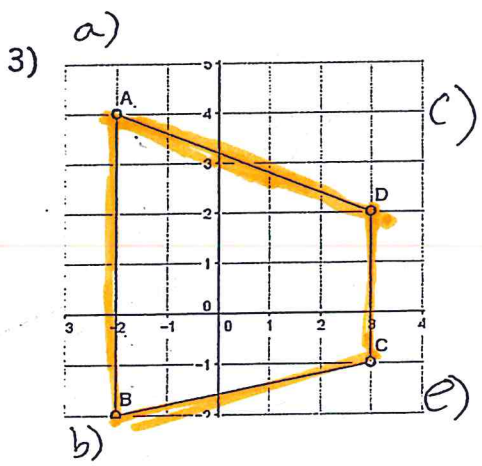
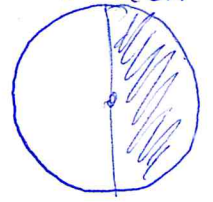
- 1) a) parallelogram ABCD write on sides, show work if P.T. 2)



b) 2 pairs parallel sides



warm-up:  
#3 here  
+ shade  
Find area  
 $d = 16 \text{ cm}$



Answers: 1)  $32\pi \text{ cm}^2$     2)  $25\pi \text{ cm}^2$     3)  $12\pi \text{ cm}^2$   
 3) trapezoid ABCD, 2 sides ||.  $A = 22.5 \text{ sq units}$   
 $6 + 3 + \sqrt{29} + \sqrt{26} = P = 19.5 \text{ units}$