

pg 673 #11-22

#11-14 see graph paper

15. $336 = \frac{1}{2}(24)(b)$
 $b = 28 \text{ in}$

16. $A = \frac{1}{2}(3)(1)$
 $A = 1.5 \text{ ft}^2$
 $150(1.5) = 225 \text{ ft}^2$

17. $\frac{1}{2}(13.8)(100)$
 $A = 688.2 \text{ in}^2$
 $a = \frac{10}{\tan 36}$
 $a = 13.8$

18. $\frac{1}{2}(14.5)(96)$
 $A = 696 \text{ ft}^2$
 $\tan 22.5 = \frac{a}{6}$ $a = \frac{6}{\tan 22.5}$

19. $A_{\text{pan}} = 20.25\pi$
 $A_{\text{pan}} = 63.6 \text{ in}^2$

8 inch square pan

20. $A_{\Delta} = 2$ $A_{\square} = 21$

$A = 23 \text{ units}^2$

21. $A_{\text{semicircle}} = \frac{10\pi}{2} = 25.1$

$A_{\square} = \frac{1}{2}(h)(10+8)$

↑ find using
special Δ 's

$62.5 + 25.1 = 87.5 \text{ units}^2$

$h = 4\sqrt{3}$

$A = \frac{1}{2}(4\sqrt{3})(18)$

$A = 62.5$

22. $A = 57600$
 $A_{\text{circle}} = 20106.2$

$A = 77,706.2 \text{ ft}^2$

pg 675 # 1-10, 14, 15 # 1-4, 14 see graph paper

6. ~~10~~

$$\tan 22.5 = \frac{x}{3}$$

$$x = 1.24$$

$$s = 2.5$$

$$p = 19.9$$

$$A = \frac{1}{2}(3)(19.9)$$

$$A = 29.8 \text{ ft}^2$$

5. $A_{\Delta} = \frac{1}{2}(6)(17) = 51$

$$A_{\Delta} = \frac{1}{2}(28)(15) = 210$$

$$A = 261 \text{ m}^2$$

7. $\tan 36 = \frac{11.5}{a}$

$$a = 15.8$$

$$A = \frac{1}{2}(15.8)(11.5)$$

$$A = 910.1 \text{ cm}^2$$

8. $a = .75\sqrt{3}$
(special Δ s)

$$A = \frac{1}{2}(.75\sqrt{3})(9)$$

$$A = 5.8 \text{ in}^2$$

9. $A_{\square} = 21(14) = 294$

$$A_{\square} = \frac{1}{2}(8)(21)(24) = 180$$

$$A = 474 \text{ units}^2$$

10. $A_{\Delta} = \frac{1}{2}(3\sqrt{3})(6)$ ← special right Δ s

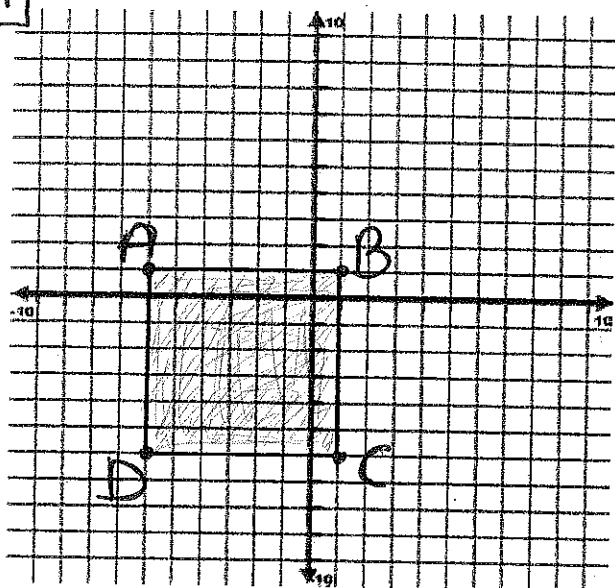
$$A_{\Delta} = 15.6 \cdot 2 = 31.2$$

$$A_{\square} = 12(5) = 60$$

$$A = 91.2 \text{ units}^2$$

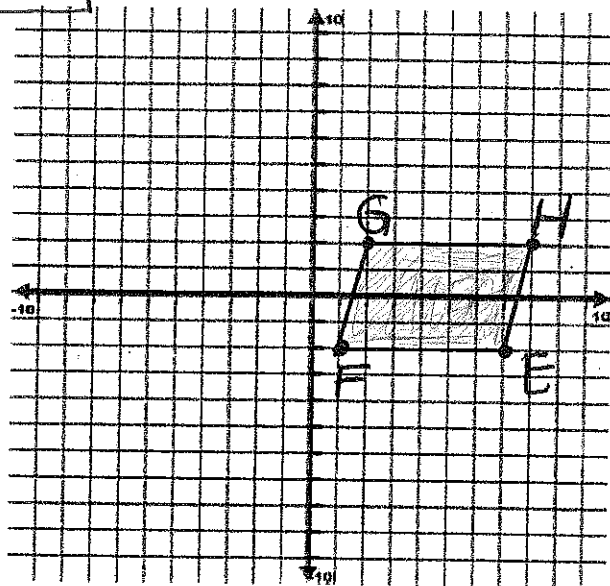
15. $D = 64 + 16\pi$

11



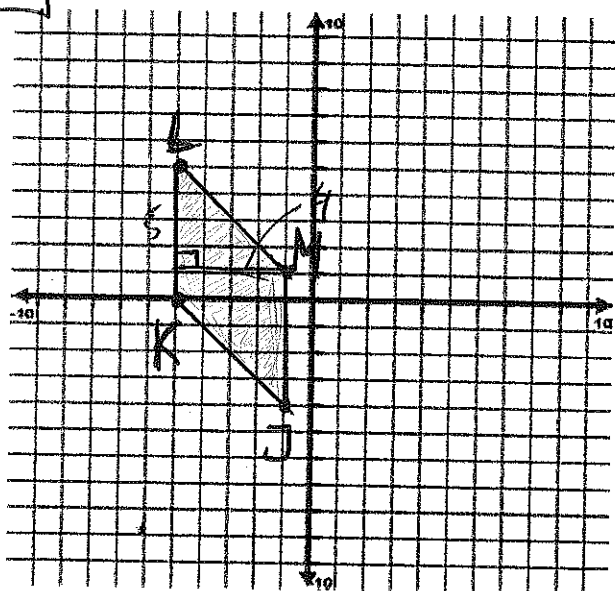
$A = 49 \text{ units}^2$
Square

12



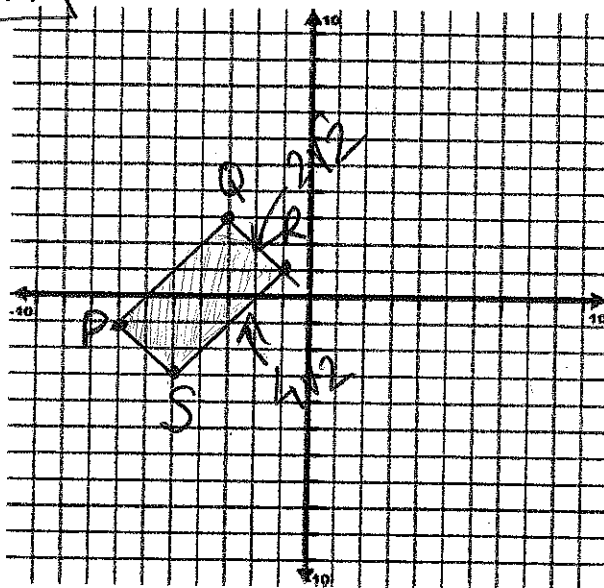
$A = 24 \text{ units}^2$
Parallelogram

13



$A = 20 \text{ units}^2$
Parallelogram

14



$A = 16 \text{ units}^2$
Rectangle

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15) 28 inches

16) 225 ft^2

17) 688.2 in^2

18) 695.3 ft^2

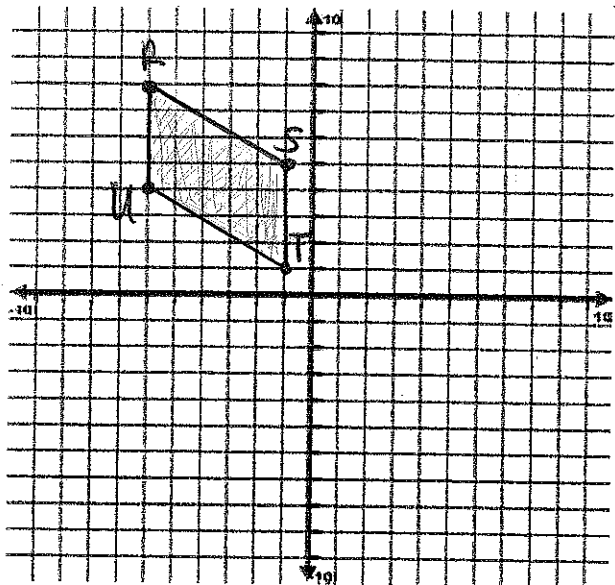
19) 8-inch square pan

20) 23 units^2

21) 87.5 units^2

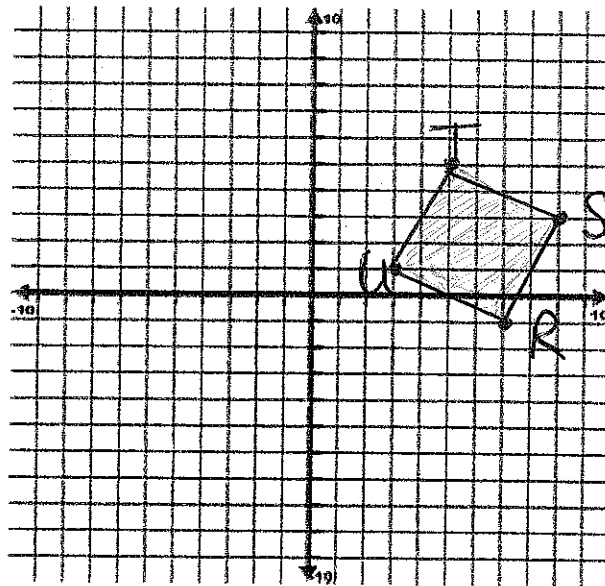
22) $77,706.2 \text{ ft}^2$

1



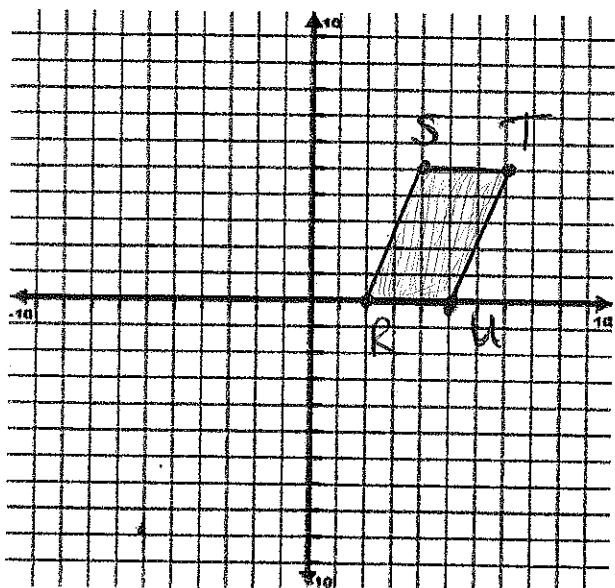
$A = 20 \text{ units}^2$
Parallelogram

2



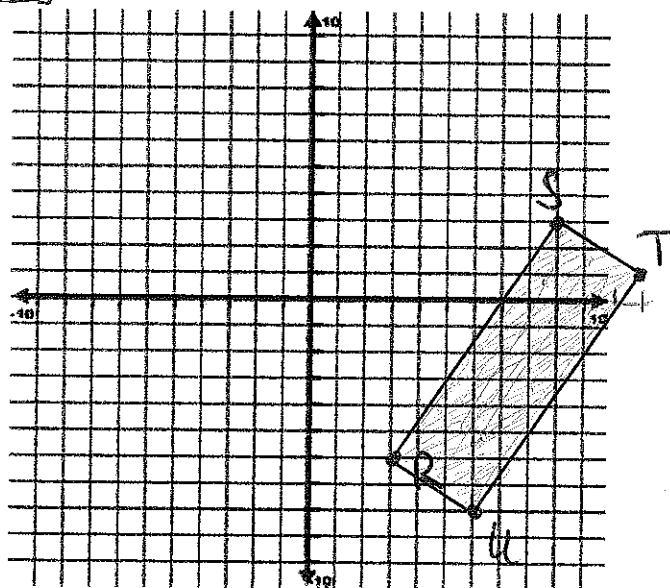
$A = 20 \text{ units}^2$
Square

3



$A = 15 \text{ units}^2$
Parallelogram

4



$A = 39 \text{ units}^2$
Rectangle

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5) 261m^2

6) 29.8ft^2

15) D

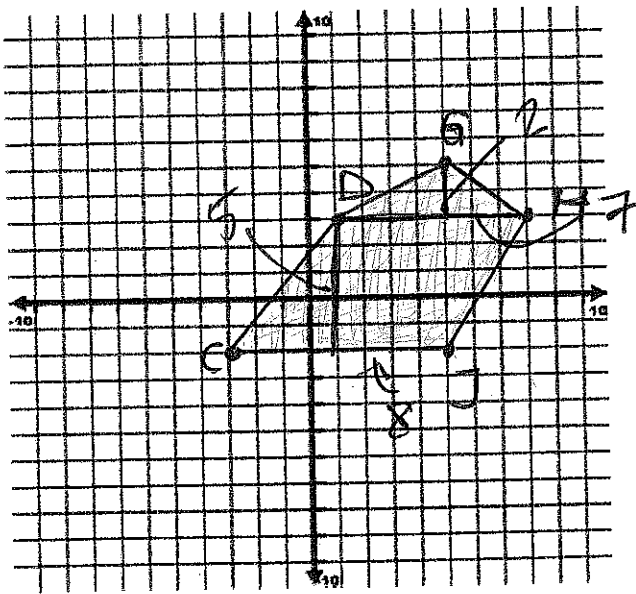
7) 910.1cm^2

8) 5.8in^2

9) 474units^2

10) 91.2units^2

14



$A = 44.5\text{units}^2$