

NEW SOUTH WALES		
a.)	1x-11>3	x-31<-3
	x-1 >3	$x \in -2$
	$x \ge 4$	
	$x \ge 4$	$x \leq -2$
	-2 0	4
b.) 0°	< 8 < 360°	
		= 0
	cos 8 = -	•
		3 and 5= 112° \$
	$a^2 = b^2 + c^2 - 2bc$	
c.) ;.)		8.92 - 2x5.2x8.9 cos/10°
5 G		79-21-92.56 cos110°
5.2 S-72 tank = 8.9	$a^2 = 137.90$	5 + + + 31.65738447 5 738 45
tan 5 = 59°42'	a = 11-70	4339749
	= 11.7	4 (to 2.d.p) or 11m 74cm
n.)	$A = \frac{1}{2} absinc$	
	= = 11.743397	49x S-2 sin 59°42'
Α	= 复 26 ~ 36	



$(d.)$ $ii)$ $y=2x$ ω
y= 6x - x20
from ()
$\frac{y}{2} = x$
sub iili 0
以=6(学)-(学)
$y = \frac{6y}{2} - \frac{y^2}{4}$
$y = 3y - y^2$
$4y = 12y - y^2$
0=84-42
8y-y ² =0
y ² - 8y=0
y(y-8)=0
y = 8
rub nite O
8=2x
x=4
so points are (4,8)

02WB4



BUARD UP STUBIES NEW SOUTH WALES
$y=6x-x^2$ $y=2x$
$A = \int_0^{\pi} (6x - x^2) - (2x) dx$
$= \left[\frac{\left(\frac{8}{x^2} - \frac{x^3}{3}\right) - \left(\frac{2x^2}{x^2}\right) \right]_0^4$
$= \left(\frac{3(4)^{2} - (4)^{3}}{3} \right) - \left(\frac{3(4)^{2}}{3} \right) - \left(\frac{3(4)^{2} - (4)^{2}}{3} \right) = \left(\frac{3(4)^{2} - (4)^{3}}{3} \right) - \left(\frac{3(4)^{2} - (4)^{3}}{3} \right) = \left(3$
$= 48 - 21\frac{1}{3} - 16$ $A = 10\frac{2}{3} u^{2}$
$A = 10\frac{2}{3}$