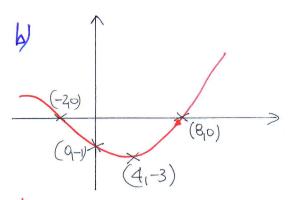


BI EXPECT SHAPE IN CORPERT QUADRANTS

BI MIN AT (0,-3)

BI (-3,0) & (2,0) BOTH



CORRECT SITAPE IN CORRECT

AU POUR CORPLET CO-ORDINATES (-2,0), (8,0), (0,-1), (4,-3)

-1 ee00

$$\frac{(1+N7)(3+N7)}{(3-N7)(3+N7)} = \frac{(8-N7)(77+2)}{(N7-2)(N7+2)}$$

$$\frac{10 + 4\sqrt{7}}{2}$$
 $\frac{6\sqrt{7} + 9}{3}$

BI

5+217 - (217+3)

DO NOT AWARD MI IF INVISIBL' BRACKETS

2

Al c.a.o

2> \ = 0.E

AI



$$x \le -\frac{1}{2} o x x > 5 c.a.o$$

accept "and" do not accept > do w accept 5 /x >-!

[173] - U3 - (5) [2x(13) + 49(-1) -- Ald - 75

AWARD | MARK IF NO MARK IS SCORED & 173+165+159+... IS SEGN

5. 9 GOOD SUBSTITUTION ATTEMPT

MI

$$32^{2}-52+10=0$$

AI

$$(-5)^2 - 4x2 \times 10$$

MI

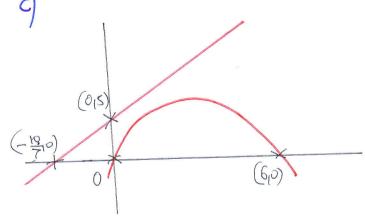
Al

BI BI

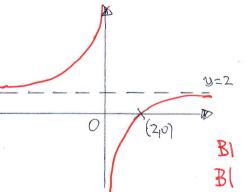
LINE THROUGH (O,5) Al dep TROUBLE (-1910) Al de

QUADRATIC SHAPT CORRECT THROUGH (O,O) Aldep THOUGH (GO) Al diff

-1 If CAL MET



(. a)



y=2

BI

2=0 OR YAXUS BI

BI SHARE CORRECT IT

BI TRANSLATION UP ONLY

B1 (210)

PENALLSE SHAPE IF

7.
$$(y =) | 8 \sqrt{2} - 10 \, da \, o.E$$

B1

 $(y =) | 6 \sqrt{2} | 10 \sqrt{+C} \, o.E$

B3

 $(8 = 6 \times 8^{\frac{1}{2}} - 10 \times 8 + C \, o.E)$
 $(=2) | or | y = 6 \sqrt{3} - 10 \times + 2 \, o.E$

A1

8. a)
$$2p-s-(-p)$$
 B1
 $3p-2-(-2p-5)$ B1
 $3p-5=p+3$ M1
 $2p=8$ LAADING TO $p=4$ A1

Al

C)
$$-4 + (k-1) \times 7 > 1000$$
Allow use of N
Allow use of N
Allow use of R
 $7k > 1011$ or $7k = 1011$ M
 $8k = 145$ Al c.q.o

9. 9) $\frac{9-3}{12-0}$ M $\frac{1}{2}$ Alo.E. $y = \frac{1}{2}x + 3$ or 2y = x + 6 Alo.E.

b) IMPUR OR USES GRAD
$$-2$$
 $y-1=-2(x-11)$

MI

GOOD ATTIMPT TO SOWE SPURITIONS

MI AT

 $x=8$
 $y=8$
 $y=8$

c)
$$\sqrt{(7-1)^2 + (8-11)^2}$$
 correct USE MI AT AT AT AT

 $|AP| = \sqrt{(7-3) + (8-0)^2}$

d)

$$AP = N80 \text{ or } 4N5$$

$$A \times 4N5 \times 3N5 = 30$$

$$A \times 4N5 \times 3N5 = 30$$

MI

c)
$$4x-6=-\frac{1}{2}$$
 M
 $x=\frac{11}{8}$ Alose