



y = 2|x + 4| - 5

3x + 40 = 2|x + 4| - 5

Figure 2 shows a sketch of the graph with equation

The vertex of the graph is at the point P, shown in Figure 2.

- (a) Find the coordinates of P.
- (b) Solve the equation

A line *l* has equation
$$y = ax$$
, where *a* is a constant.

Given that *l* intersects y = 2|x+4| - 5 at least once,

- (c) find the range of possible values of a, writing your answer in set notation.
 - or notation.

(2)

(2)

(3)