

(1) Determine the equations of the following straight lines:

(a) through the coordinate  $(0 ; -2)$  with gradient 2.

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(b) through the origin parallel to  $y = x + 1$ .

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(c) through the coordinates  $(-1 ; 3)$  and  $(2 ; 5)$ .

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(d) through the coordinate  $(3 ; 0)$  perpendicular to  $y = -x - 3$ .

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(e) perpendicular to  $2y + 4 = x$  through  $(0 ; -2)$ .

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(f) through the coordinates  $(2 ; 4)$  and  $(-1 ; 4)$ .

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(g) parallel to  $2x + 2y = 6$  through  $(2 ; 3)$ .

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(h) through the coordinates  $(6 ; 3)$  and  $(0 ; 1)$ .

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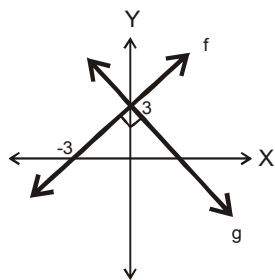
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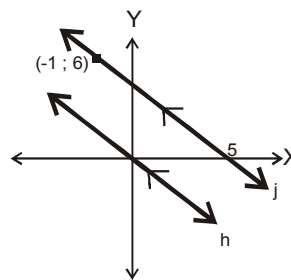
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(2) Determine the equations of  $f$ ,  $g$ ,  $h$  and  $j$  in each of the following sketches:

(a)



(b)




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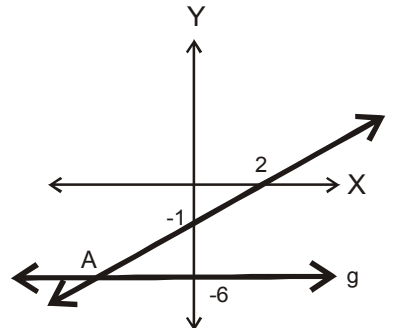
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(3) (a) Determine the equations of  $f$  and  $g$ .

(b) Calculate, algebraically, the coordinates of  $A$ .

(c) Determine the equation of  $h$  in the form  $h : x \rightarrow \dots\dots$  if  $h \perp f$  through the point  $A$ .




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