**PRACTICE AT FINDING EQUATIONS OF GRAPHS. ANSWERS.**

Find the equations (and domains ie *x* values) of the following graphs labelled A to K.

y

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  | B |  |  |  |  |  |  | K |  |  |  |  |  |  |
| A | A | A | A | A | A | A | A | A | A | D  A | A | A | A | A | A | A | A | A | A |
|  |  |  |  |  |  |  |  |  | 5 |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | C |  |  |  |  |  |  |  |  |  |  |  |  |
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|  | A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | F |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -10 -5 0 5 10 x |  |  |  |  |  |  |  |  |  |  | E |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  | H |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | G |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | -5 |  |  |  |  |  |  |  |  |  |  |
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| A  *y = (x + 9)(x + 6)2*    *-9 ≤ x ≤ -5*  0 *≤ y ≤ 4* | D  *y = -3x + 8*  *0 ≤ x ≤ 2*  2 *≤ y ≤ 8* | G  *y = -x – 9*  *-8 ≤ x ≤ -1*  -8 *≤ y ≤ -1* |
| B  *y = x + 9*  *-5 ≤ x ≤ 0*  4 *≤ y ≤ 9* | E  *y = x2 – 2*  *-2 ≤ x ≤ 2*  -2 *≤ y ≤ 2* | H  *y = - 8*  *x*  *-8 ≤ x ≤ -1*  -8 *≤ y ≤ -1* |
| C  *y = 3x + 8*  *-2 ≤ x ≤ 0*  2 *≤ y ≤ 8* | F  *y = - (x – 4)(x – 8)*  *2*  *2 ≤ x ≤ 10*  -6 *≤ y ≤ 2* | K  *y = 2x*  *0 ≤ x ≤ 3*  1 *≤ y ≤ 8* |