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$I = M(k^2 + c^2)$

(a) Find the value of I when $M = 7$, $k = 3$ and $c = 2$.

$I =$

.....

[2]

(b) Rearrange the formula to write k in terms of I , M and c .

$k =$

.....

[3]

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$b = dm + 2mk$

(a) $d = 3.14$, $m = 7.92$ and $k = 10.16$.

By rounding each value correct to 1 significant figure, work out an estimate for b .

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[3]

(b) Rearrange the formula to make m the subject.

$m =$

.....

[2]