1

If vmt≠0, is $v^2 \cdot m^3 \cdot t^{-4} > 0$?

(1) $m > v^2$
(2) $m > t^{-4}$

2

If $1/3 < z < 2/3$, then what is the value of z?

(1) When positive integer x is divided by 2, the result is z.
(2) When positive even integer y is divided by 12, the result is z.

3

If xy < 4, is x < 2 ?

(1) y > 1
(2) y > x

4

What is the value of integer x ?

(1) $4 < (x-1) \cdot (x-1) < 16$
(2) $4 < (x+1) \cdot (x-1) < 16$