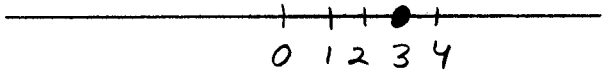
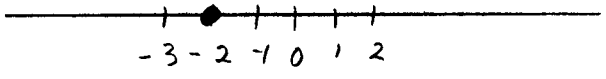
P-2 Plot each quantity on the real number line.

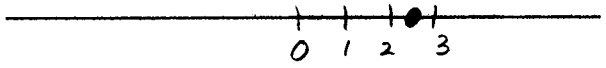
1. 3



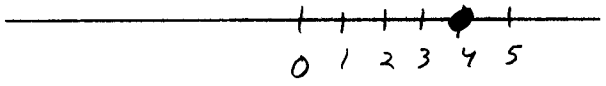
2. -2



3. $\frac{9-4}{2} = \frac{5}{2} = 2\frac{1}{2}$



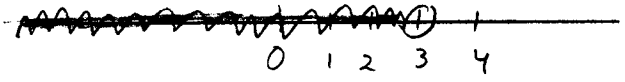
4. $2^3 - \left(\frac{4+8}{3}\right)$



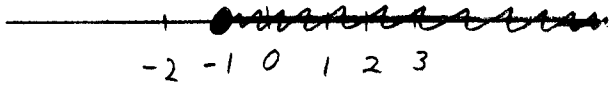
$= 8 - \left(\frac{12}{3}\right) = 8 - (4) = 4$

Graph all the real numbers on the real number line that satisfy the given conditions on x. Be careful to mark any endpoints correctly.

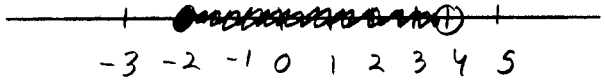
5. $x < 3$



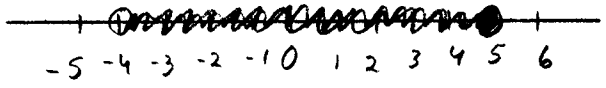
6. $x \geq -1$



7. $-2 \leq x < 4$



8. $5 \geq x > -4$



Translate each statement into an algebraic expression. Be sure to state what quantity each letter represents.

9. Sally has five dollars more than Karen.

let x be Karen's $
y be Sally's $

$y = x + 5$

10. Joe has twice as many credit cards as Tim.

let x be the # of Tim's credit cards
y be the # of Joe's credit cards

$y = 2x$