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Let us C
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Chapter 2: Cinstructions

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В.

(d) 
$$R = x^*x + 2^*x + 1/2^*x^*x + x + 1$$
 (x=3.5, assume R to be float)

Solution: The operator to be evaluated is underlined

$$R = x^*x + 2^*x + 1/2^*x^*x + x + 1$$

$$= 3.5^*3.5 + 2^*3.5 + 1/2^*3.5^*3.5 + 3.5 + 1 \qquad (* and / has same precedence but associativity left to right)$$

$$= 12.25 + 2^*3.5 + 1/2^*3.5^*3.5 + 3.5 + 1$$

$$= 12.25 + 7.0 + 1/2 + 3.5 + 3.5 + 3.5 + 1 \qquad (since 1 and is integer constant result will be quotient i.e. 0)$$

$$= 12.25 + 7.0 + 0 + 3.5 + 3.5 + 3.5 + 1$$

$$= 12.25 + 7.0 + 0 + 3.5 + 3.5 + 1$$

$$= 12.25 + 7.0 + 0 + 3.5 + 1$$

$$= 19.25 + 0 + 3.5 + 1$$

$$= 19.25 + 3.5 + 1$$

$$= 19.25 + 3.5 + 1$$

$$= 22.25 + 1$$

$$= 23.25$$

C.

(b) 
$$b = 3/2 + 5*4/3$$

Solution: The operator to be evaluated is underlined

b = 
$$3/2+5*4/3$$
 (\* and / has same precedence but associativity left to right)  
=  $1+5*4/3$   
=  $1+20/3$   
=  $1+6$   
= 7

Solution: The operator to be evaluated is underlined

$$x = 2-3+\frac{5*2}{8\%3}$$
 (\*,/ and % has same precedence but associativity left to right)
$$= 2-3+\frac{10/8}{8\%3}$$

$$= 2-3+\frac{11}{3}$$

$$= 2-3+1$$
 (+ and - has same precedence but associativity left to right)
$$= -1+1$$

$$= 0$$

(f) 
$$y=z=-3\%-8/2+7$$

Solution: The operator to be evaluated is underlined

$$y=z=-3\%-8/2+7$$
 (/ and % has same precedence but associativity left to right)
$$= -3/2+7$$

$$=-1+7$$

$$=6$$