## Q1

1. For each of the following expressions, determine the order of operations and the results.

The order is denoted by numbers 0.8, 0 ...

(a) 
$$\frac{-(2+3/2) *4}{2} = -14$$

(c) 
$$= 2 \times 4 + 4/2 \times 9 = 2$$

(d) 
$$10 \pm 2 > < 3 \pm 2 = 20$$

(e) 
$$2 + 3 = 6 + 3 = 0 = 0$$

(f) 3 gt 2 = 1 
$$\Rightarrow$$
 (3 gt 2)  $\$  (2 = 1) = 0

(g) 
$$\triangle (-3) + 3 = 3$$

(i) 
$$4 > 3 >= 2 \Rightarrow (473) 2 (3 >= 2) = 1$$

The order is denoted by number 
$$0.8, 0...$$

(a)  $-(2+3/2) \stackrel{*}{\overset{*}{\circ}} 4 = -44$ 

(b)  $\exp(-3 + 2/4 - 7) \stackrel{*}{\overset{*}{\circ}} 2 = 0.000142223$ 

(c)  $-2 \stackrel{*}{\overset{*}{\circ}} 4 + 4/2 \stackrel{*}{\overset{*}{\circ}} 9 = 2$ 

(d)  $10 \stackrel{*}{\overset{*}{\circ}} 2 > < 3 \stackrel{*}{\overset{*}{\circ}} 2 = 20$ 

(e)  $2 \stackrel{*}{\overset{*}{\circ}} 3 = 6 \stackrel{!}{\overset{!}{\circ}} 3 \stackrel{!}{\overset{!}{\circ}} 0 = 0$ 

(f)  $3 \text{ gt } 2 = 1 \Rightarrow (3 \stackrel{!}{\overset{!}{\circ}} 1 = 2) \stackrel{!}{\overset{!}{\circ}} (2 = 1) = 0$ 

(g)  $\stackrel{\wedge}{\overset{\wedge}{\circ}} (-3) + 3 = 3$ 

(h)  $4 \stackrel{!}{\overset{!}{\circ}} 1 (1, 2, 3, 4, 5) \stackrel{!}{\overset{!}{\circ}} 3 \stackrel{!}{\overset{!}{\circ}} 2 = 1$ 

(i)  $4 > 3 > = 2 \Rightarrow (4 > 3) \stackrel{!}{\overset{!}{\circ}} (3 > = 2) = 1$ 

(j)  $1 \stackrel{!}{\overset{!}{\circ}} 1 \stackrel{!}{\overset{!}{\circ}} 1 \stackrel{!}{\overset{!}{\circ}} 1 \stackrel{!}{\overset{!}{\circ}} 1 \stackrel{!}{\overset{!}{\circ}} 1 = 0$ 

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/* 2(a) */
x1=mdy(1,1,year+1)-mdy(1,1,year);
/* 2(b) */
if(scan(x2,3)^= '') then
    name=scan(x2,1)||' '
    || substr(scan(x2,2),1,1) ||'.'
    || substr(scan(x2,3),1,1) ||'. ';
Else name=scan(x2,1)||' '||substr(scan(x2,2),1,1)||'.';
/* 2(c) */
det=b*b-4*a*c;
if det>=0 then x3=((-b+sqrt(det))/(2*a))
    <>((-b-sqrt(det))/(2*a));
else x3=.;
/* 2(d) */
dangel=52;
pi=constant('pi');
c=sqrt(a*a+b*b-2*a*b*cos(pi*dangle/180));
/*2 (e) */
if length(y) le 1 then y=x4; else
y=substr(y,1,length(y)-1)||x4;
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