

Trace the following code segments. They are purposefully written with bad style to save space on the worksheet. Trace the variables & parameters in the appropriate columns & show the output.

1.

```
public class Exercise1  
{
```

```
    public static void main(String[] args)           num1 num2 num3  
    {  
        int num1 = 10, num2 = 5;  
        double num3 = computeAve(num1, num2);  
        System.out.println(mystery(num3));  
    }
```

```
    public static double computeAve(double x, double y)  
    { return (x + y) / 2.0; }           x y
```

show output here

```
    public static double mystery(double x)           x  
    { return computeAve(x, x + 2); }
```

```
}
```

2.

```
public class Exercise2  
{
```

```
    public static void main(String[] args)           num1 num2  
    {  
        int num1 = 1, num2 = 3;  
        System.out.println(mystery1(mystery2(num2, num1), 5));  
    }
```

```
    public static double mystery1(double x, int y)  
    { return x + y * 2; }           x y
```

show output here

```
    public static double mystery2(int y, int x)  
    { return mystery1(x, y); }           x y
```

```
}
```

3.

```
public class Exercise3  
{
```

```
    public static void main(String[] args)           num1 num2  
    {  
        int num1 = 1, num2 = 3;  
        System.out.println(mystery1(num1 + num2));  
    }
```

```
    public static double mystery1(int x)           x  
    { return mystery2(x) + mystery2(x); }
```

show output here

```
    public static double mystery2(int x)           x  
    { return x + 2; }
```

```
}
```