For each of the following assignment statements, show the value that will be stored in the variable on the left hand side. Assume that you are given the following declarations:

int num;

float val;

bool valid;

1. num = 17 / 2 + 4;
2. val = 17 / 2 + 4;
3. num = 17 / 2.0 + 4;
4. val = 17 / 2.0 + 4;
5. num = 11 % 6 / 2 - 1;
6. val = 11 % 6 / 2.0 - 1;
7. num = 3 - (5 + 10 / (2 \* 2));
8. val = 3 - (5 + 10 / (2 \* 3.0));
9. val = 4.5 \* (5 - 3);

num = val;

1. num = 15 / 2 % 3 - 1;
2. num = 7 \* 2 - 5 / 3;

val = num;

1. num = 6 + 2/5 - 1;
2. val = 6 + static\_cast<double>(2/5) – 1;
3. num = 6 + static\_cast<double>(2)/5 – 1;
4. num = 6.0 + 2/static\_cast<float>(5) – 1;
5. val = 6.0 + 2/static\_cast<float>(5) – 1;
6. num = 123 / 10 + 3;
7. num = 123 % 10 + 3;
8. val = 123 / 10 + 3
9. valid = 7 \* 2 – 5 / 3;
10. valid = 17%3 – 22/10;

char symbol;

int num;

1. symbol = ‘a’ + 4;

num = symbol + 8;

1. symbol = ‘}’ – ‘K’;

Show what will be displayed by the following code.

1. cout << ‘F’ + ‘2’;
2. cout << ‘F’ + 2;
3. cout << static\_cast<int>(‘F’) + ‘2’;
4. cout << static\_cast<char>(‘F’ + ‘2’);
5. cout << ‘F’ + static\_cast<char>(2);