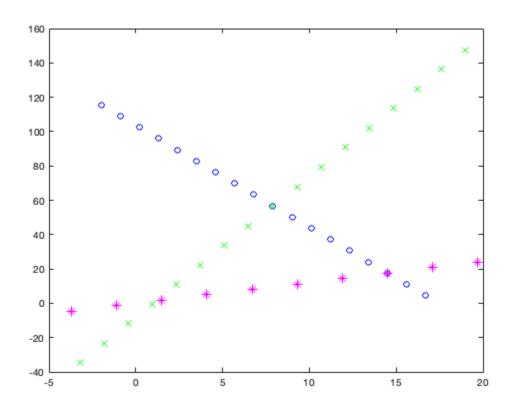
MATLAB Assignment 2

William Carden EGR 101-02 Due Date: 1/28/2025

```
format compact
% Slopes and interceps
m1 = -5.93;
b1 = 103.6;
m2 = 8.2;
b2 = -8.3;
m3 = 1.21;
b3 = 0;
% x1, x2, x3 row vectors
x1 = -2:1.1:17;
x2 = linspace(-3.2, 19, 17);
x3 = -3.7:2.6:20;
% Calculate y1, y2, and y3 using the slope-intercept formula.
y1 = m1 * x1 + b1;
y2 = m2 * x2 + b2;
y3 = m3 * x3 + b3;
% Calculate the mean values of y1, y2, y3.
mean y1 = mean(y1);
mean_y2 = mean(y2);
mean_y3 = mean(y3);
% Calculate the smallest values of y1, y2, y3.
min_y1 = min(y1);
min_y2 = min(y2);
min_y3 = min(y3);
% Calculate the largest values of x1, x2, x3.
\max_{x1} = \max(x1);
\max x2 = \max(x2);
\max_{x3} = \max(x3);
% Plot values
plot(x1, y1, 'bo', x2, y2, 'gx', x3, y3, 'm*')
% Mean of all y values
mean\_all\_ys = mean([y1 y2 y3])
% Sum of y minimums
sum_y_mins = sum([min_y1 min_y2 min_y3])
% Sum of x maxiums
sum_x_maxs = sum([max_x1 max_x2 max_x3])
mean\_all\_ys =
   47.4938
```

```
sum_y_mins =
    -34.4480
sum_x_maxs =
    55.4000
```



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