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MECH 105

Homework 14

10/9/2017

```
% Pit composition in percent
A=[55 25 25; 30 45 20; 15 30 55]/100;
% Amount of sand, fine gravel and coarse gravel needed [m^3]
B=[4800; 5800; 5700];
X=A\B;
sum=X(1)+X(2)+X(3);
fprintf('%2.2f cubic meters from pit 1.\n',X(1))
```

2416.67 cubic meters from pit 1.

```
fprintf('%2.2f cubic meters from pit 2.\n',X(2))
```

9193.33 cubic meters from pit 2.

```
fprintf('%2.2f cubic meters from pit 3.\n',X(3))
```

4690.00 cubic meters from pit 3.

```
fprintf('The sum is %5.0f cubic meters. We're good!\n',sum)
```

The sum is 16300 cubic meters. We're good!