

$$\text{Total } P_{\text{avg}} = \frac{P_{\text{avg}}}{\text{efficiency}}$$

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where $\eta = 0.8$

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given $\eta = 0.8$

Multiple choice

- A. Forward motion
- B. None
- C. All
- D. None

```

5- format long g
6- v = 0.5
7- for i = 1:100
8-     iter = (i-1) * F;
9-     v(i) = sqrt((C*(1000 - (log(v(i-1)))^2 * 8) * (94.3 * (0.02 * v(i-1)))) / 0.9);
10-    ea(i) = abs((v(i) - v(i-1)) / v(i)) * 100;
11-    if ea(i) <= 1e-11
12-        break;
13-    end
14- end
15- [iter 'v' ea];
16- plot(v, 'or');
17- axis tight;
18- grid on;
19- grid minor;

```

Ans: 504.007822675085