

Ans to the question 5(b):

```
In[ ]:= DSolve[{3 x [y]^2 y^2 Dt [x[y]] / Dt [y] == 4 y^5, x[0] == 0}, x[y], y]
Out[ ]:= {{x[y] -> (y^4)^{1/3}}, {x[y] -> - (-1)^{1/3} (y^4)^{1/3}}, {x[y] -> (-1)^{2/3} (y^4)^{1/3}}}
```

```
In[ ]:= x[y] /. %29 /. y -> 4 // N
Out[ ]:= {6.3496, -3.1748 - 5.49892 i, -3.1748 + 5.49892 i}
```