Cash flows of $\$ 20$ million for 4 years.
Investment = \$48 million.
Tax rate $=40 \%$.
Debt ratio $=45 \%$.
Bonds have 5 years left to maturity, a coupon rate $=7 \%$ annually coupons, face value $=\$ 1000$, current price $=\$ 960$.
$\$ 6,000,000$ in preferred stock (dividend of $\$ 4$ with a price of $\$ 42$, issue cost $=\$ 2$ ), the rest from retained earnings.
$\$ 2.5$ per share next year, retention rate $=40 \%$, return on equity $=25 \%$. Current stock price $=\$ 50$.
$W A C C=E N^{*} R e+D N^{*} R d^{*}(1-T c)$
$R \mathrm{e}=$ cost of equity
$R D=$ cost of debt
$E=$ market value of the firm's equity
$D=$ market value of the firm's debt
$V=E+D$
$E / V=$ percentage of financing, i.e., equity
D/V = percentage of financing, i.e.debt
TC = corporate tax rate
WACC $=0.45^{*} 0.25+0.45^{*} 0.4^{*}(1-0.4)=0.2205$

| Net Present Value (NPV) |  |
| :---: | :---: |
| $N P V=\sum_{t=1}^{T} \frac{\text { Cash Flow }_{t}}{(1+i)^{t}}-$ | Initial Cash Investment |
| $t=$ Cash Flow Period $i=$ Interest Rate Assumption |  |

$N P V=20000000 / 1.2205+20000000 / 1.2205^{\wedge} 2+20000000 / 1.2205^{\wedge} 3+20000000 / 1.2205^{\wedge} 4-48000000$ = \$1826771,24

