```
> F_UTL:=[2*(1+gamma^2)*xD*b1-(1+gamma^2)^2*(b2/3+b3
+b4)-(1+gamma^2)*(b2/3-b4)-(b2/3-b3)];
```

$$F\_UTL := \left[2\,(1+\gamma^2)\,xD\,b1 - (1+\gamma^2)^2\left(\frac{1}{3}\,b2 + b3 + b4\right) - (1+\gamma^2)\left(\frac{1}{3}\,b2 - b4\right) - \frac{1}{3}\,b2 + b3 \right]$$

```
> F_UTLx:=expand(F_UTL);
```

$$F\_UTLx := \left[2\,xD\,b1 + 2\,xD\,b1\,\gamma^2 - b2 - \gamma^2\,b2 - 2\,\gamma^2\,b3 - \gamma^2\,b4 - \frac{1}{3}\,\gamma^4\,b2 - \gamma^4\,b3 - \gamma^4\,b4 \right]$$

```
> F_UTL_x:=collect(F_UTLx,[b1,b2,b3,b4],factor);
```

$$F\_UTL\_x := \left[2\,(1+\gamma^2)\,xD\,b1 + \left(-\gamma^2 - \frac{1}{3}\,\gamma^4 - 1\right) b2 - \gamma^2\,(2+\gamma^2)\,b3 - \gamma^2\,(1+\gamma^2)\,b4 \right]$$

```
> F_UTL_xg:=combine(F_UTL_x,power);
```

$$F\_UTL\_xg := \left[(2\,\gamma^2 + 2)\,b1\,xD + \left(-\gamma^2 - \frac{1}{3}\,\gamma^4 - 1\right) b2 + (-2 - \gamma^2)\,\gamma^2\,b3 + (-1 - \gamma^2)\,\gamma^2\,b4 \right]$$

```
> F_UTT:=-[2*(1+gamma^2)*xD*b1-gamma^2*(b2/6-b3/2)];
```

$$F\_UTT := \left[-2\,(1+\gamma^2)\,xD\,b1 + \gamma^2\left(\frac{1}{6}\,b2 - \frac{1}{2}\,b3\right) \right]$$

```
> F_UTTx:=expand(F_UTT);
```

$$F\_UTTx := \left[-2\,xD\,b1 - 2\,xD\,b1\,\gamma^2 + \frac{1}{6}\,\gamma^2\,b2 - \frac{1}{2}\,\gamma^2\,b3 \right]$$

```
> F_UTT_x:=collect(F_UTTx,[b1,b2,b3],factor);
```

$$F\_UTT\_x := \left[-2\,(1+\gamma^2)\,xD\,b1 + \frac{1}{6}\,\gamma^2\,b2 - \frac{1}{2}\,\gamma^2\,b3 \right]$$

```
> A_zz_b1:=F_UTT_x+epsilon*F_UTL_x;
```

$$A\_zz\_b1 := \left[-2\,(1+\gamma^2)\,xD\,b1 + \frac{1}{6}\,\gamma^2\,b2 - \frac{1}{2}\,\gamma^2\,b3 \right] + \varepsilon\left[2\,(1+\gamma^2)\,xD\,b1 + \left(-\gamma^2 - \frac{1}{3}\,\gamma^4 - 1\right) b2 - \gamma^2\,(2+\gamma^2)\,b3 - \gamma^2\,(1+\gamma^2)\,b4 \right]$$

```
> Azz_b1x:= expand(A_zz_b1);
```

$$Azz\_b1x := \left[2\,xD\,b1\,\varepsilon + 2\,xD\,b1\,\gamma^2\,\varepsilon - b2\,\varepsilon - \gamma^2\,b2\,\varepsilon - 2\,\gamma^2\,b3\,\varepsilon - \gamma^2\,b4\,\varepsilon - \frac{1}{3}\,\gamma^4\,b2\,\varepsilon - \gamma^4\,b3\,\varepsilon - \gamma^4\,b4\,\varepsilon - 2\,xD\,b1 - 2\,xD\,b1\,\gamma^2 + \frac{1}{6}\,\gamma^2\,b2 - \frac{1}{2}\,\gamma^2\,b3 \right]$$

```
> Azz_b1:=collect(Azz_b1x,[b1,b2,b3,b4],factor);
```

$$Azz\_b1 := \left[2\,xD\,(1+\gamma^2)\,(\varepsilon - 1)\,b1 + \left(-\frac{1}{3}\,\gamma^4\,\varepsilon - \varepsilon - \gamma^2\,\varepsilon + \frac{1}{6}\,\gamma^2\right) b2 - \frac{1}{2}\,\gamma^2\,(2\,\gamma^2\,\varepsilon + 1 + 4\,\varepsilon)\,b3 - \gamma^2\,\varepsilon\,(1+\gamma^2)\,b4 \right]$$

```
>
```